

Clarification Request

References: BTL Test Plan does not reference test 9.22.2.5

Date of BTL-WG Response: April 6, 2014

Background:

9.22.2.5 Writing To Non-Existent Objects

Purpose: This test case verifies that the IUT can execute WriteProperty service requests when the object specified in the service request does not exist. 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, that does not exist in the IUT. Object1 shall be of a type supported by the IUT. An attempt will be made to write to a property, designated P1, in this non-existent object. P1 shall refer to a standard property that is supported by this object type in the IUT.

Test Steps:

1. TRANSMIT WriteProperty-Request,
 'Object Identifier' = Object1,
 'Property Identifier' = P1,
 'Property Value' = (any value of the correct datatype for this property)
2. RECEIVE BACnet-Error PDU,
 Error Class = OBJECT,
 Error Code = UNKNOWN_OBJECT

Passing Result: While OBJECT::UNKNOWN_OBJECT is the desired error for this condition, in some implementations other error conditions may be checked before the existence of the object itself. The other errors that are acceptable are:

PROPERTY::UNKNOWN_PROPERTY,
PROPERTY::WRITE_ACCESS_DENIED,
PROPERTY::INVALID_DATATYPE,
PROPERTY::VALUE_OUT_OF_RANGE and
RESOURCES::NO_SPACE_TO_WRITE_PROPERTY.

Problem:

The test is not referenced in BTL Test Plan. No test that ever mentions UNKNOWN_OBJECT is referenced in BTL Test Plan.

Question:

Should the UNKNOWN_OBJECT error code be enforced in WriteProperty testing?

Response:

"Yes, The BTL-WG will develop a test requiring
RECEIVE BACnet-Error PDU,
 Error Class = OBJECT,
 Error Code = UNKNOWN_OBJECT
when appropriate."