

Clarification Request

References: 135.1 - 2007 - 13.4.5 *Too Many Arguments* and 135.1 - 2007 - 13.4.3 *Invalid Tag*

Background / Proposed Solution:

There is a single form of the invalid PDU tests, though failure to respond with a relevant error code, or to respond at all to similar invalid PDUs in other services could produce interoperability issues. Especially for the GetEventInformation service which specifies a precise error code for a recoverable situation that can occur sporadically. Two devices in the lab were inadvertently discovered during execution of A-side 8.8.X1 testing, which would fail proposed test 13.4.X1. The existing test is shown here, 13.4.5

13.4.5 Too Many Arguments

Purpose: To verify that the IUT correctly responds to a message that conveys too many arguments.

Test Concept: The TD transmits a ReadProperty service request that conveys an extra property identifier.

Test Steps:

1. TRANSMIT ReadProperty-Request,
 - 'Object Identifier' = (any supported object),
 - 'Property Identifier' = (any valid property identifier for the specified object),
 - 'Property Identifier' = (any valid property identifier for the specified object not equal to the one in the previous parameter)
2. RECEIVE BACnet-Reject-PDU,
 - Reject Reason = TOO_MANY_ARGUMENTS | INVALID_TAG

I propose two additional tests to be required by Test Plan section AE - INFO - B Base Requirements.

13.4.X1 Malformed Optional Argument

Purpose: To verify that the IUT correctly responds to a message that incorrectly conveys an optional argument.

Test Concept: The TD transmits a GetEventInformation service request that conveys part, but not all of a 'Last Received Object Identifier' argument.

Test Steps:

1. TRANSMIT GetEventInformation-Request
 - 'Last Received Object Identifier' = (either 1 or 2 or 3 or 4, but not 5 bytes of a BACnetObjectIdentifier)
2. RECEIVE BACnet-Error PDU,

Reject Reason = TOO_MANY_ARGUMENTS | INVALID_TAG

9.8.X1 Confusing Optional Argument

Purpose: To verify that the IUT returns the appropriate error code when the GetEventInformation service request contains a confusing 'Last Received Object Identifier' argument. This test case shall be executed only for devices that contain more than one object that can detect alarms.

Configuration Requirements: The IUT shall be configured so that at some point in the past it could have had more than one active event states, that would have required transmission with 'More Events' = TRUE. At the time this test begins, the IUT shall be configured so that there are one or more active event states.

Test Steps:

1. TRANSMIT GetEventInformation-Request
'Last Received Object Identifier' = an object identifier in IUT capable of being in alarm state, but not currently in alarm state)
2. RECEIVE BACnet-Error PDU,
Error Class = OBJECT,
Error Code = UNKNOWN_OBJECT |
RECEIVE GetEventInformation-ACK,
'List of Event Summaries' = (a list containing one or more entries currently in active event state),
'More Events' = FALSE | TRUE

Response:

Don't use the Clarification process to add test coverage. So this Clarification Request is removed to the to-do list for a future revision of the test package.