

Clarification Request

References: “e.g” BTL Specified Tests, 135.1-2023, 135.1-2023-9.14.2.2, 135-2024

Date of BTL-WG Response: June 19, 2025

Background: “e.g” Alternative responses to a Reject – Invalid Tag

Problem:

There are many negative tests in the test package that expect a specific set of Reject-PDU's. Some of these tests specify an INVALID_TAG reason (sometimes among others) but do not include all of the 'equivalent' reject reasons as specified in Clause 18 of the BACnet standard.

An example:

9.14.2.2 Adding a List Element With an Invalid Datatype

Purpose: To verify the ability of the IUT to correctly respond to an AddListElement service request to add an element with an invalid datatype to a list.

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Test Steps:

1. TRANSMIT AddListElement-Request,
 - 'Object Identifier' = L,
 - 'Property Identifier' = ListProp,
 - 'List of Elements' = (a single element with a datatype inappropriate for this property)
2. RECEIVE
 - (AddListElement-Error,
 - Error Class = PROPERTY,
 - Error Code = INVALID_DATATYPE,
 - 'First Failed Element' = 1) |
 - (BACnet-Reject-PDU
 - Reject Reason = INVALID_PARAMETER_DATATYPE) |
 - (BACnet-Reject-PDU
 - Reject Reason = INVALID_TAG)

From Clause 18.9:

18.9 Reject Reason

Only confirmed request PDUs can be rejected. The possible reasons for rejecting the PDU are enumerated in this clause.

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INVALID_TAG - While parsing a message, an invalid tag was encountered. Since an invalid tag could confuse the parsing logic, any of the following Reject Reasons may also be generated in response to a confirmed request containing an invalid tag: INCONSISTENT_PARAMETERS, INVALID_PARAMETER_DATA_TYPE, MISSING_REQUIRED_PARAMETER, and TOO_MANY_ARGUMENTS.

Question:

Can any of the reject reasons, considered equivalent to INVALID_TAG, be provided as a response in test 9.14.2.2?

Response

Yes