

**INTERPRETATION IC 135-2024-9 OF
ANSI/ASHRAE STANDARD 135-2024 BACnet® -
A Data Communication Protocol for Building
Automation and Control Networks**

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Reference: This request for interpretation refers to ANSI/ASHRAE Standard 135-2024 and pertains to the allowed reject reasons with the different enumerations.

Background:

18.9 Reject Reason

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

BUFFER_OVERFLOW - A buffer capacity has been exceeded.

INCONSISTENT_PARAMETERS - Generated in response to a confirmed request APDU that omits a conditional service argument that should be present or contains a conditional service argument that should not be present. This condition could also elicit a Reject PDU with a Reject Reason of **INVALID_TAG**.

INVALID_DATA_ENCODING - Generated in response to a confirmed request APDU that conveys a parameter whose encoding is not valid for the datatype of the parameter.

INVALID_PARAMETER_DATA_TYPE - Generated in response to a confirmed request APDU in which the encoding of one or more of the service parameters does not follow the correct type specification. This condition could also elicit a Reject PDU with a Reject Reason of **INVALID_TAG**.

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**.

MISSING_REQUIRED_PARAMETER - Generated in response to a confirmed request APDU that is missing at least one mandatory service argument. This condition could also elicit a Reject PDU with a Reject Reason of **INVALID_TAG**.

PARAMETER_OUT_OF_RANGE - Generated in response to a confirmed request APDU that conveys a parameter whose value is outside the range defined for this service.

TOO_MANY_ARGUMENTS - Generated in response to a confirmed request APDU in which the total number of service arguments is greater than specified for the service. This condition could also elicit a Reject PDU with a Reject Reason of **INVALID_TAG**.

UNDEFINED_ENUMERATION - Generated in response to a confirmed request APDU in which one or more of the service parameters is decoded as an enumeration that is not defined by the type specification of this parameter.

UNRECOGNIZED_SERVICE - Generated in response to a confirmed request APDU in which the Service Choice field specifies an unknown or unsupported service.

OTHER - Generated in response to a confirmed request APDU that contains a syntax error for which an error code has not been explicitly defined.

Problem:

A device that receives a message containing an INVALID_PARAMETER_DATA_TYPE is allowed to return an INVALID_TAG. Based on the definition of INVALID_TAG, can the device alternatively return INCONSISTENT_PARAMETERS, MISSING_REQUIRED_PARAMETER, or TOO_MANY_ARGUMENTS reject reasons?

Interpretation:

A device that receives a message that contains an invalid tag, inconsistent parameters, an invalid data type, missing required parameters, or too many parameters is allowed to return a reject reason of INVALID_TAG, INCONSISTENT_PARAMETERS, INVALID_PARAMETER_DATA_TYPE, MISSING_REQUIRED_PARAMETER, or TOO_MANY_ARGUMENTS.

Question: Is this Interpretation correct?

Answer: Yes.

Comment: A device that receives a message that contains an invalid tag, inconsistent parameters, an invalid data type, missing required parameters, or too many parameters is allowed to return any reject reason.