INTERPRETATION IC 135-2024-4 OF
ANSI/ASHRAE STANDARD 135-2024 BACnet® -
A Data Communication Protocol for Building
Automation and Control Networks

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Request from: Michael Osborne, BTB Consulting, 408 - 9864 Fourth St, Sidney, BC, V8L 2Z4.

Reference: This request for interpretation refers to ANSI/ASHRAE Standard 135-2024 and pertains to the CONFIGURATION_ERROR requirements in the Reliability property clauses.

Background:

12.2.9 Reliability
This property, of type BACnetReliability, provides an indication of whether the Present_Value or the operation of the physical input in question is "reliable" as far as the BACnet device or operator can determine and, if not, why.

If a fault algorithm is applied, then this property shall be the pCurrentReliability parameter for the object's fault algorithm.

The Reliability property shall take on a value of CONFIGURATION_ERROR under these conditions:
> (a) If both limits are enabled in the Limit_Enable property, and the value of the High_Limit property is less than the value of the Low_Limit property, or
> (b) if the value of Fault_High_Limit property is less than the value of the Fault_Low_Limit property.

Problem:
An existing device contains an Analog Input object that supports intrinsic reporting and has writable High_Limit and Low_Limit properties. The object also contains the Reliability property and supports FAULT_OUT_OF_RANGE algorithm.

As of Protocol_Revision 27 (Addendum ci), that same object must also generate a CONFIGURATION_ERROR, CHANGE_OF_RELIABILTY event.

CONFIGURATION_ERROR is a nice feature but should not be required.

Interpretation: For Clause 12 objects that specify Reliability equal to CONFIGURATION_ERROR, the requirement should have been optional.

Question: Is this Interpretation correct?

Answer: No