INTERPRETATION IC 135-2020-25 OF
ANSI/ASHRAE STANDARD 135-2020 BACnet® -
A Data Communication Protocol for Building
Automation and Control Networks

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Request from: Michael Osborne, BTB Consulting, 130 Kingham Place, Victoria, BC, Canada V9B 1L8.

Reference: This request for interpretation refers to ANSI/ASHRAE Standard 135-2020, Clause K.3.2, BIBB - Scheduling-Internal-B (SCHED-I-B) and the requirements of the Exception_Schedule property.

Background: Clause K.3.2 (SCHED-I-B) explicitly defines 6 time-value pairs (entries) per day for the Weekly_Schedule property but does not define the number of entries in each array element of the Exception_Schedule property.

Clause K.3.2 states the Exception_Schedule property must be non-empty and Interpretation Request ic-135-2020-17 clarifies that the Exception_Schedule property must be writable to claim the SCHED-I-B BIBB.

Clause K.3.2 also requires support for at least one Calendar object inferring a requirement to support referencing a Calendar object in the BACnetSpecialEvent.

Clause K.3.2 does not specify the minimum number of array elements required to be supported in the Exception_Schedule property.

All devices presently tested require at least two array elements in the Exception Schedule property and require 5 time-value pairs in each BACnetSpecialEvent.

Interpretation #1: To claim the SCHED-I-B BIBB, a device must support more than one array element in the Exception_Schedule property of a Schedule object.

Question: Is this Interpretation correct?

Answer: No

Comments: 135-2020 does not mandate that the Exception_Schedule property contain more than one array entry.

Interpretation #2: To claim the SCHED-I-B BIBB, a device must support more than one time-value pair in each BACnetSpecialEvent property in the Exception_Schedule property of a Schedule object.

Question: Is this Interpretation correct?

Answer: Yes

Comments: It's implied in 135-2020 that there are more than one time-value pairs in each BACnetSpecialEvent entry. When the elements of this property are referenced in the standard, they are always referred to in the plural form. See Clause 12.24.8.