

**INTERPRETATION IC 135-2012-6 OF
ANSI/ASHRAE STANDARD 135-2012 BACnet® -
A Data Communication Protocol for Building
Automation and Control Networks**

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Request from: Duffy O'Craven (btl-manager@bacnetinternational.org), Quinda Inc., 41 St. Hilda's Av., Toronto, ON M4N 2P5 CANADA.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE 135-2012, Clause 12.9.6, relating to the behavior of the Present_Value in a Calendar when the Date_List contains a specific day-of-week, and any of the special third octet values.

Background: In the Chapter 20.2.12 definition of BACnet Date, the language "last day of the month" is used. This is slightly different from the language "last 7 days of this month" which is used in the Chapter 20 definition of the middle octet of BACnetWeekNDay.

Date_List has this specification (these three quoted paragraphs are the entirety of Section 12.9.6):

"This property is a BACnetLIST of BACnetCalendarEntry, each of which is either a specific date or date pattern (Date), range of dates (BACnetDateRange), or month/week-of-month/day-of-week specification (BACnetWeekNDay). If the current date matches the calendar entry criteria, the present value of the Calendar object is TRUE.

As an example, if the calendar entry is a BACnetWeekNDay with an unspecified octet in the month and week-of-month fields but with a specific day-of-week, it means that the Calendar object is TRUE on that day-of-week all year long.

If a BACnet Device permits writing to the Date_List property, all choices and all allowed forms of values in the BACnetCalendarEntry shall be supported."

Interpretation No.1: Date patterns which contain a specific day-of-week, along with the special third octet: last day of the month, if expressed with prose are "matching on the last day of the month which is that day of the week." i.e. the Present_Value property of a Calendar shall be TRUE on Tuesday 28-May-2013 and FALSE on Friday 31-May-2013, if the Date_List property contains a BACnetCalendarEntry date pattern (Date) bearing Tuesday, last day of the month/May/2013, and contains no other entries which would match Friday 31-May-2013.

Question No.1: Is this interpretation correct?

Answer No.1: No

Interpretation No.2: Date patterns which contain a specific day-of-week, along with special third octet: odd days of month or even days of month, if expressed with prose are "matching on the odd or even days of the month which are that day of the week." i.e. the Present_Value

property of a Calendar shall be TRUE on Saturday 27-Apr-2013 and FALSE on Monday 29-Apr-2013, if the Date_List property contains a BACnetCalendarEntry date pattern (Date) bearing Saturday, odd days of the month, unspecified month, and unspecified year, and contains no other entries which would match Monday 29-Apr-2013.

Question No.2: Is this interpretation correct?

Answer No.2: Yes

Comments:

The "last day of the month" is the last day of the month, and is not impacted by any of the other filters provided in a BACnetWeekNDay.

Each of the criteria in a BACnetWeekNDay are evaluated independently and all of the criteria need to pass for the result to be true.