

Clarification Request

Request from: BTL Manager <btl-manager@bacnetinternational.org>

References: ASHRAE 135-2008, 135-2010ac-1

Stage: ☒ Request, ☐ Listed, ☐ Analysis, ☐ Resolved

Actions necessitated: ☒ Checklist/Test Plan change, ☐ BTL Specified Tests change,
☐ SSPC Interpretation required, ☐ Implementation Guidelines change,

Date of BTL-WG Response: _____
☐ All actions necessitated have been completed

Background:

12.24.6 Effective_Period

This property specifies the range of dates within which the Schedule object is active. Seasonal scheduling may be achieved by defining several SCHEDULE objects with non-overlapping Effective_Periods to control the same property references. Upon entering its effective period, the object shall calculate its Present_Value and write that value to all members of the List_Of_Object_Property_References property. An error writing to any member of the list shall not stop the Schedule object from writing to the remaining members.

Addendum 135-2010ac-1 clarified (but never explicitly mentioned Effective_Period):

[Add new **Clauses 3.2.x** pp. 1-5]

[Note that additional special date values, their description and their encodings were introduced with addendum 135-2008h-10]

3.2.x date pattern: a date that may contain one or more unspecified octets or special date values.

3.2.x special date value: a date value that is one of the special values such as "even months", "last day of month", etc. These

special date values are used in subcomponents (octets) of a value of type Date.

3.2.x specific date: a fully specified date. For example, January 24, 1991, Day of week = Thursday. A specific date shall contain no unspecified octets or Special Date Values.

[Change **Clause 12** pp. 128-129]

...

There are a number of objects defined in this clause that have properties of the type BACnetDateRange, for example the

Date_List property in the Calendar object, whose construct includes a startDate and an endDate. Both startDate and

endDate may be an unspecified date or a specific date only. For purposes of comparing date ranges, the following logic shall be applied.

The use of an unspecified date in the startDate means "any date up to and including the endDate." The use of an unspecified date in the endDate means "any date after and including the startDate." The use of an unspecified date in both the startDate and the endDate means "any date" or "always."

[Change **Clauses 20.2.12** and **20.2.13**, p. 422]

Neither an unspecified date nor a date pattern shall be used in date values that convey actual dates, such as in a TimeSynchronization-Request.

The processing of a day of week received in a service that is in the range 1 to 7 and is inconsistent with the values in the other octets shall be a local matter.

Example: Application-tagged specific date value

ASN.1 = Date
Value = January 24, 1991 (Day of week = Thursday)
Application Tag = Date (Tag Number = 10)
Encoded Tag = X'A4'
Encoded Data = X'5B011804'

Example: Application-tagged date pattern value

ASN.1 = Date
Value = year = 1991, month is unspecified, day = 24, day of week is unspecified
Application Tag = Date (Tag Number = 10)
Encoded Tag = X'A4'
Encoded Data = X'5BFF18FF'

Change **Clause 21, BACnetDateRange production**, p.449]

BACnetDateRange ::= SEQUENCE { -- see Clause 20.2.12 for restrictions
 startDate Date,
 endDate Date
}

Questions:

1. Is the Effective_Period property, of type BACnetDateRange forbidden to use a date pattern?
2. Is Effective_Period required to treat a specific date containing DayOfWeek as a specific date, or can it instead as a local matter make that portion of each week that is within the range of the pair of DayOfWeek as inside the Effective_Range, i.e. Mon, Jan 3, 2011 through Tue Aug 16, 2011 is only effective on Mondays and Tuesdays?
3. Is Effective_Period required not to use an unspecified date in either half, at all?

Response:

1. Effective_Period is forbidden to use a date pattern
2. Effective_Period is required to treat a specific date containing DayOfWeek as a specific date.
3. Effective Period is permitted to use unspecified date in startDate or endDate or both.