

Clarification Request

References: "ASHRAE 135.1-2003"

Section 9.10.1.8 - Reading OPTIONAL Properties

Section 9.10.1.9 - Reading REQUIRED Properties

Background / Proposed Solution:

Conformance Code Definition.

135-2004 Clause 12 says "When a property is designated as optional or O, this shall mean that the property is not required to be present in all standard BACnet objects of that type."

Required(R) means the property always has to be there and be readable but it MAY or MAY NOT be writable

Writable (W) means the property always has to be there and be readable and writable.

Optional(O) means the property MAY or MAY NOT be there, MAY or MAY NOT be writable, and MAY or MAY NOT be required.

The general opinion appears to be that the "Conformance Code" notation is defined as applying to the object "type" and the footnotes refer to "the object instance". The footnote references will not change the Conformance Code classification.

As such, The Device Object's Max_Segments_Accepted property will always be OPTIONAL and be included in a ReadPropertyMultiple-OPTIONAL service request, even if the device supports segmentation requiring that the Max_Segments_Accepted property be present.

Question:

Should object properties that have a Conformance Code of 'O' (OPTIONAL), but are required to be present due to services or other property dependencies, be include in a Read-Property-Multiple "REQUIRED" or "OPTIONAL" service request?

Response:

Object properties that have the Conformance Code of 'O' (OPTIONAL) shall always be returned using the ReadProperty-Multiple 'OPTIONAL' request.