

Clarification Request

Request from:

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References:

ASHRAE 135-2004

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

Background / Proposed Solution:

ASHRAE 135-2004

12.11.14 Protocol_Services_Supported

This property, of type BACnetServicesSupported, indicates which standardized protocol services are supported by this device's protocol implementation.

What does it mean to support a service?

Does this mean Initiate Only, Execute Only, Initiate or Execute, Initiate and Execute, or Other?

I believe a device should set the Protocol_Services_Supported bit when you execute a service. Since the Who-Is, I-Am, Who-Has, I-Have services are never executed, the bit(s) in Protocol_Services_Supported should never be set.

Question:

When should a device set the Protocol_Services_Supported bits?

Response:

This property represents those services that can be executed by the device.

WS-069-1 addresses this question to the SSPC and recommends clarifying text to update the 135 standard.

Additional information may be found in the BTL Implementer's Guide v17, section 3.10. The text is included below.

3.10 The Protocol_Services_Supported property identifies only executable services

Only bits representing services that are executable by the device shall be set to '1' in the Protocol_Services_Supported property. Bits representing services that are initiated by the device but not executed shall be set to '0'.

This property is a means for the device to advertise to other devices which services may be sent to the device with an expectation that they will be accepted and executed.

In conclusion, if you respond to Who-Is with an I-Am, then you should set the Who-Is bit, because you are executing a Who-Is service. If you respond to Who-Has with an I-Have, then you should set the Who-Has bit. You are executing the Who-Has service. You never set the I-Have or I-Am since they are never executed.