

Clarification Request

References: ASHRAE 135-2010, ASHRAE 135.1-2009, BTL Work Item wID0066, BTL CR 185

Background / Proposed Solution:

ASHRAE 135-2010 reads in sections 12.24.7 and synonymic in 12.24.8 and 9:

If the Schedule_Default property is written with a value containing a datatype not supported by this instance of the Schedule object (e.g., the List_Of_Object_Property_References property cannot be configured to reference a property of the unsupported datatype), the device may return a Result(-) response, specifying an 'Error Class' of PROPERTY and an 'Error Code' of DATATYPE_NOT_SUPPORTED.

It thus allows returning the mentioned error on write attempts to Weekly_Schedule, Exception_Schedule and Schedule_Default.

The Test 9.22.2.3 in ASHRAE 135.1-2009 does not allow that error code and also the adopted test as in BTL wID0066 does not.

Proposed Solution:

Step 3 of test 9.22.2.3 as proposed in wID0066 should allow the error PROPERTY – DATATYPE_NOT_SUPPORTED:

3. RECEIVE (BACnet-Error PDU,
 - Error Class = PROPERTY,
 - Error Code = INVALID_DATATYPE) |
 - (BACnet-Error PDU,
 - Error Class = PROPERTY,
 - Error Code = DATATYPE_NOT_SUPPORTED) |
 - (BACnet-Reject-PDU
 - Reject Reason = INVALID_PARAMETER_DATATYPE) |
 - (BACnet-Reject-PDU
 - Reject Reason = INVALID_TAG)

Question:

Should the test be adopted as proposed?

Background:

CR-0232 deals with a similar issue.

Response:

No. The purpose of this test is to verify the correct behavior in the situation called out for invalid datatype. The error called for in the Schedule case requires a different test as it is a different error condition. In the first case, the datatype is never allowed. In the second case, the datatype is not allowed solely because the device has not implemented support for all allowable datatypes.