

Clarification Request

References: ASHRAE 135.1-2025, ASHRAE 135-2024, Test Package 26.1.

Date of BTL-WG Response: September 17, 2026

Background:

As per IUT's database, the corresponding bit for WriteProperty-Request is set to FALSE in the Protocol_Services_Supported property of the Device Object.

According to ANSI/ASHRAE Standard 135.1-2025, test "135.1-2025 - 7.3.2.46.1.5 Network Port Object Not Writable Property Test" is intended to verify that a BACnet device correctly handles attempts to write to read-only properties of a Network Port Object (NPO). The test confirms that such write attempts are rejected with WRITE_ACCESS_DENIED, that the affected property remains unchanged, and that Changes_Pending remains FALSE.

Purpose: This test verifies that writes to read-only properties of a Network Port object do not affect the Changes_Pending property and, if one is defined, contains the prescribed default value.

Test Concept: The properties of a Network Port object, NPO1, are written and rejected and the Changes_Pending is checked.

Test Steps:

1. VERIFY Changes_Pending = FALSE
2. REPEAT P = P1 ... PN {
3. TRANSMIT WriteProperty-Request,
 'Object Identifier' = NPO1,
 'Property Identifier' = P,
 'Property Value' = (any valid value)
4. RECEIVE BACnet-Error-PDU
 'Error Class' = PROPERTY,
 'Error Code' = WRITE_ACCESS_DENIED
5. CHECK (P = prescribed default value)
}
6. VERIFY Changes_Pending = FALSE

The test conditionality is specified as Must be executed if the IUT claims Protocol_Revision 17 or higher.

Problem:

Our understanding is that when the corresponding bit for the WriteProperty-Request service is set to FALSE in the Protocol_Services_Supported property of the Device Object, the IUT indicates that it does not support the execution of the WriteProperty-Request service.

However, according to Test 7.3.2.46.1.5 – Network Port Object Not Writable Property Test, Test step3, TRANSMIT WriteProperty-Request

'Object Identifier' = NPO1,
'Property Identifier' = P,
'Property Value' = (any valid value)

Test step 4, RECEIVE BACnet-Error-PDU

Error Class = PROPERTY
Error Code = WRITE_ACCESS_DENIED

We believe that if the IUT does not claim support for Data Sharing – WriteProperty – B, the IUT is not required to support the execution of the WriteProperty service. Therefore, the Network Port Object Not Writable Property Test should not be applicable in such a case, and it should have conditionality.

But the current test conditionality states: “Must be executed if the IUT claims Protocol_Revision 17 or higher.”

Based on this conditionality, the test would still be required to be executed solely based on the Protocol_Revision claim, irrespective of whether the IUT claims support for the WriteProperty service.

When we are transmitting WriteProperty-Request with,
'Object Identifier' = NPO1,
'Property Identifier' = Max_Manager | Max_INFO_Frames,
'Property Value' = (any valid value)

IUT is responding with BACnet-Reject-PDU,
'Reject Reason' = UNRECOGNIZED_SERVICE

Question:

1. For such devices, does Test Step 4 need to be modified accordingly?

If the IUT supports the WriteProperty service

RECEIVE BACnet-Error-PDU
Error Class = PROPERTY
Error Code = WRITE_ACCESS_DENIED

Else RECEIVE BACnet-Reject-PDU

Reject Reason = UNRECOGNIZED_SERVICE

2. If no, could you please advise us on the appropriate way to execute the test “135.1-2025 - 7.3.2.46.1.5 Network Port Object Not Writable Property Test” for a device that does

not support Data Sharing - WriteProperty - B and has claim *“support for Supports read only Max_Manager property”* and *“Contains non-configurable Max_Info_Frames property”* under Data Link Layer - MS/TP - Manager Node.

Response:

- 1. No. However, this test should be skipped if the IUT does not support WriteProperty service.**
- 2. See question 1.**