

Clarification Request

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

Date of BTL-WG Response: August 20, 2026

Background:

9.21.2.5 Attempting to Read a List Property by Sequence That Does not Have Sequence Numbers

Purpose: To verify the correct execution of the ReadRange service request when the requested property does not support sequence numbers.

Test Concept: A ReadRange request is transmitted by the TD requesting a specified sequence number and count of items.

The IUT shall respond by returning the appropriate error code. This test is only applied to devices with a Protocol_Revision of 21 or higher.

Test Configuration: A list property that does not support sequence numbers must be selected for this test. If no suitable property exists in the device, this test shall be skipped.

Test Steps:

1. TRANSMIT Read-Range-Request,
 'Object Identifier' = (the object configured for this test),
 'Property Identifier' = (the list property configured for this test),
 'Reference Sequence Number' = 42,
 'Count' = (any valid value)
2. RECEIVE BACnet-Error-PDU,
 'Error Class' = PROPERTY,
 'Error Code' = LIST_ITEM_NOT_NUMBERED

9.21.2.6 Attempting to Read a List Property by ByTime That Does not Have Timestamps

Purpose: To verify the correct execution of the ReadRange service request when the requested property does not support timestamps.

Test Concept: A ReadRange request is transmitted by the TD requesting a specified reference time and count of items. The

IUT shall respond with an error.

Test Configuration: A list property that does not support timestamps must be selected for this test.

Test Steps:

1. TRANSMIT Read-Range-Request,
 'Object Identifier' = (the object configured for this test),
 'Property Identifier' = (the list property configured for this test),
 'Reference Time' = (any valid specific BACnetDateTime)
 'Count' = (any valid value)
2. RECEIVE BACnet-Error-PDU,
 'Error Class' = PROPERTY,
 'Error Code' = LIST_ITEM_NOT_TIMESTAMPED
 | RECEIVE BACnet-Error-PDU,
 'Error Class' = E (any valid Error Class)
 'Error Code' = (Any valid Error Code for class E)

Problem:

Where **9.21.2.5** only allows for one specific error response, **9.21.2.6** accepts all valid combinations of E and allowed error-codes.

Question:

Should the error responses be harmonized?

Response:

No. Test 9.21.2.5 only applies to devices at Protocol_Revision $\geq$ 21 and test 9.21.2.6 applies to devices of any Protocol_Revision. The BTL-WG will consider expanding the scope of 9.21.2.5 to also include devices at earlier Protocol_Revisions and allow additional Error Codes and Classes similar to 9.21.2.6.