

## Clarification Request

**References: ASHRAE-135.1-2023 Test Standard**

**Date of BTL-WG Response: July 10, 2025**

### **Background:**

**135.1-2023 7.3.2.46.3.6.2 RESTART\_AUTONEGOTIATION Command Failure Test**

### **7.3.2.46.3.6.2 RESTART\_AUTONEGOTIATION Command Failure Test**

Purpose: To verify that Network Port objects respond to the RESTART\_AUTO-NEGOTIATION command with the correct error codes when the command is not supported / enabled.

Test Concept: Starting with a Network Port object which is not configured to auto-negotiate its link speed or which does not support the RESTART\_AUTO-NEGOTIATION, command it to restart auto-negotiation. Verify that the correct error code is returned.

Configuration Requirements: If the network port support auto-negotiation, disable it. If the IUT does not support the Command property, or all Network Port object support auto-negotiation and it cannot be disabled, then this test shall be skipped.

#### Test Steps:

-- make sure our initial conditions are good

1. **VERIFY Link\_Speed\_Auto-negotiate = TRUE**

-- request the renewal, and wait for it to timeout

2. TRANSMIT WriteProperty-Request,  
    'Object Identifier' = (the Network Port object),  
    'Property Identifier' = Command,  
    'Property Value' = RESTART\_AUTO-NEGOTIATION

3. IF the port does not support auto-negotiation THEN

    RECEIVE BACnet-Error-PDU

        'Error Class' = PROPERTY,

        'Error Code' = OPTIONAL\_FUNCTIONALITY\_NOT\_SUPPORTED

ELSE

    RECEIVE BACnet-Error-PDU

        'Error Class' = PROPERTY,

        'Error Code' = VALUE\_OUT\_OF\_RANGE

### **Problem:**

In Step 1, the test requires the command:

VERIFY Link\_Speed\_Auto-negotiate = TRUE

However, according to the BACnet standard, the Link\_Speed\_Auto-negotiate property is optional. If the device's Network Port does not expose the Link\_Speed\_Auto-negotiate property, the test fails at Step 1.

**Question:**

Is it allowed to skip Step 1 if the Network Object Property Link\_Speed\_Auto-negotiate is not present?

**Response:**

**Yes**