

## Clarification Request

**References:** "e.g" BTL Specified Tests 9.20.1.X3 and 9.18.1.X5

**Date of BTL-WG Response:** December 17, 2020

All Actions Necessitated have been Completed

**Background: "e.g"**

**From the standard 135-2020: ReadProperty Service**

### 15.5.2 Service Procedure

After verifying the validity of the request, the responding BACnet-user shall attempt to access the specified property of the specified object. If the access is successful, a 'Result(+)' primitive, which returns the accessed value, shall be generated. If the access fails, a 'Result(-)' primitive shall be generated, indicating the reason for the failure.

When the object-type in the Object Identifier parameter contains the value DEVICE and the instance in the 'Object Identifier' parameter contains the value 4194303, the responding BACnet-user shall treat the Object Identifier as if it correctly matched the local Device object. This allows the device instance of a device that does not generate I-Am messages to be determined.

When the object-type in the Object Identifier parameter contains the value NETWORK\_PORT and the instance in the 'Object Identifier' parameter contains the value 4194303, the responding BACnet-user shall treat the Object Identifier as if it correctly matched the local Network Port object representing the network port through which the request was received. This allows the network port instance of the network port that was used to receive the request to be determined.

**From BTL Specified Tests 18.0:**

### 9.18.1.X5 ReadProperty of the Network Port Object using the Unknown Instance

Reason for Change: No test exists for this functionality. This test is not in any SSPC proposal.

Purpose: Verify that the IUT selects the correct object when a Network Port is read using the special object instance 4194303.

Test Concept: Execute a ReadProperty service request specifying 'Object Identifier' = (Network Port, 4194303). Verify that the responding BACnet-user selects the local Network Port object representing the network port through which the request was received.

Configuration Requirements: Let X be the instance number of the Network Port object associated with the network port through which the TD will communicate with the IUT. *The Changes-Pending must be FALSE for the entire test.*

Test Steps:

1. TRANSMIT ReadProperty-Request,  
    'Object Identifier' = (Network Port, 4194303),  
    'Property Identifier' = Object-Identifier
2. RECEIVE ReadProperty-ACK,

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    'Object Identifier' = (Network Port, X),
    'Property Identifier' = Object-Identifier,
    'Property Value' = (Network Port, X)
3. REPEAT P = (each property in the specified Network Port object) {
    TRANSMIT ReadProperty-Request through the same port as above,
        'Object Identifier' = (Network Port, 4194303),
        'Property Identifier' = P
    RECEIVE ReadProperty-ACK,
        'Object Identifier' = (Network Port, X),
        'Property Identifier' = P,
        'Property Value' = V
    VERIFY (Network Port, X), P = V
}

```

I am only presenting the ReadProperty test however the same question holds for the ReadPropertyMultiple test 9.20.1.X3.

**Problem:**

The Network Port Object has a 'changes pending' state. Is it valid to run this test when 'changes pending' is true?

My interpretation is no. The network port object must be in a consistent state with the data link (i.e. changes-pending = false) in order to run this test.

If this is correct, I would like to add some text to the configuration requirements to make it clear that the 'changes-pending' must be FALSE at the start of the test.

**Question:**

Is this interpretation correct?

**Response:**

**No. It is valid to run this test when 'changes pending' is true.**