

## Clarification Request

**References:** BTL Specified Tests-20.0.1\_final.pdf

**Date of BTL-WG Response:** 2023-02-16

### Background:

This is regarding the devices claiming support for “Supports receiving a DeviceCommunicationControl service request with a finite duration” and not for indefinite duration.

Test Step 1 for both below mentioned tests does not consist of “Time duration” parameter mentioned.

#### 9.24.2.1 Invalid Password

*Reason for Change: Modify the parameter value from DISABLE to DISABLE\_INITIATION in step 1*

Purpose: To verify the correct execution of DeviceCommunicationControl service procedure when an invalid password is provided. If the IUT does not provide password protection this test case shall be omitted.

Test Steps:

1. TRANSMIT DeviceCommunicationControl-Request,  
    'Enable/Disable' = *DISABLE\_INITIATION*, DISABLE  
    'Password' = (any invalid password)
2. RECEIVE BACnet-Error-PDU,  
    Error Class = SECURITY,  
    Error Code = PASSWORD\_FAILURE
3. VERIFY (Device, X), System\_Status = (any valid value)

#### 9.24.2.2 Missing Password

*Reason for Change: Modify the parameter value from DISABLE to DISABLE\_INITIATION in step 1.*

Purpose: To verify the correct execution of DeviceCommunicationControl service procedure when a password is required but not provided. If the IUT does not provide password protection, then this test case shall be omitted.

Test Steps:

1. TRANSMIT DeviceCommunicationControl-Request,  
    'Enable/Disable' = *DISABLE\_INITIATION DISABLE*

2. IF (Protocol\_Revision >= 7) THEN  
 RECEIVE BACnet-Error-PDU,  
     Error Class = SECURITY,  
     Error Code = PASSWORD\_FAILURE  
 ELSE  
 RECEIVE BACnet-Error-PDU,  
     Error Class = SECURITY,  
     Error Code = PASSWORD\_FAILURE |  
 (RECEIVE BACnet-Error-PDU,  
     Error Class = SERVICES,  
     Error Code = MISSING\_REQUIRED\_PARAMETER)
3. VERIFY (Device, X), System\_Status = (any valid value)

**Observation:**

When as per step 1 DeviceCommunicationControl-Request is transmitted to devices which does not support for indefinite duration, device will respond with  
 Error Class = SERVICES,  
 Error Code = OPTIONAL\_FUNCTIONALITY\_NOT\_SUPPORTED.

And when we send DeviceCommunicationControl service request with a finite duration and invalid password, device responds correctly:  
 Error Class = SECURITY,  
 Error Code = PASSWORD\_FAILURE.

Hence, to execute both of these tests in devices which does not support for indefinite duration following modifications should be done.

**9.24.2.1 Invalid Password**

*Reason for Change: Modify the parameter value from DISABLE to DISABLE\_INITIATION in step 1*

*Add 'Time Duration' parameter in step 1*

Purpose: To verify the correct execution of DeviceCommunicationControl service procedure when an invalid password is provided. If the IUT does not provide password protection this test case shall be omitted.

**Test Steps:**

1. TRANSMIT DeviceCommunicationControl-Request,  
     'Enable/Disable' = DISABLE\_INITIATION, DISABLE  
     'Password' = (any invalid password)  
     '*Time Duration' = (a value T >= 1, in minutes) | (no value)*
2. RECEIVE BACnet-Error-PDU,  
     Error Class = SECURITY,  
     Error Code = PASSWORD\_FAILURE

3. VERIFY (Device, X), System\_Status = (any valid value)

### 9.24.2.2 Missing Password

*Reason for Change: Modify the parameter value from DISABLE to DISABLE\_INITIATION in step 1.*

**Add 'Time Duration' parameter in step 1**

Purpose: To verify the correct execution of DeviceCommunicationControl service procedure when a password is required but not provided. If the IUT does not provide password protection, then this test case shall be omitted.

Test Steps:

1. TRANSMIT DeviceCommunicationControl-Request,  
     'Enable/Disable' = *DISABLE\_INITIATION DISABLE*  
     '**Time Duration' = (a value T >= 1, in minutes) | (no value)**
2. IF (Protocol\_Revision >= 7) THEN  
     RECEIVE BACnet-Error-PDU,  
         Error Class = SECURITY,  
         Error Code = PASSWORD\_FAILURE  
     ELSE  
     RECEIVE BACnet-Error-PDU,  
         Error Class = SECURITY,  
         Error Code = PASSWORD\_FAILURE |  
     (RECEIVE BACnet-Error-PDU,  
         Error Class = SERVICES,  
         Error Code = MISSING\_REQUIRED\_PARAMETER)
3. VERIFY (Device, X), System\_Status = (any valid value)

**Question:**

1. Are above modifications acceptable.

**Response:**

1. **No.**  
     **The change should be 'Time Duration' = (a value T>=1, in minutes)**