

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)