

Clarification Request

References: ASHRAE 135.1-2023, ASHRAE 135-2024, Test Package 26.0.

Date of BTL-WG Response: May 29, 2025

Background:

8.14.3 Supports Receiving a DeviceCommunicationControl Service Request with no Password

The IUT does not require, or can be made to not require, a password parameter in a DeviceCommunicationControl service request.

135.1-2023 - 9.24.1.8 - Finite Time Duration, Disable Initiation		
	Test Conditionality	If the IUT does not initiate any services, other than an I-Am in response to a Who-Is, then this test case shall be skipped.
	Test Directives	The service request shall not contain a password.
	Testing Hints	
135.1-2023 - 9.24.1.6 - Indefinite Time Duration, Disable-Initiation, Restored by DeviceCommunicationControl		
	Test Conditionality	If the IUT does not initiate any services, other than an I-Am in response to a Who-Is, then this test case shall be skipped.
	Test Directives	The service request shall not contain a password.
	Testing Hints	

8.14.7 Supports Receiving a DeviceCommunicationControl Service Request Specifying DISABLE_INITIATION

The IUT will accept the value of DISABLE_INITIATION in the enable-disable parameter of the service request.

135.1-2023 - 9.24.1.9 - Disable of Service Initiation Restored by Time Duration		
	Test Conditionality	If the IUT cannot be made to initiate any service, this test shall be skipped.
	Test Directives	
	Testing Hints	
135.1-2023 - 9.24.1.10 - Disable of Service Initiation Restored by DeviceCommunicationControl		
	Test Conditionality	If the IUT cannot be made to initiate any service, this test shall be skipped.
	Test Directives	
	Testing Hints	

9.24.1.9 Disable of Service Initiation Restored by Time Duration

Purpose: To verify the correct execution of the DeviceCommunicationControl service when DISABLE_INITIATION is requested with a finite time duration. Communication is restored when the DeviceCommunicationControl 'Time Duration' parameter expires.

Configuration Requirements: The IUT shall be configured to initiate client requests.

Test Steps:

1. MAKE (a condition that would normally cause the IUT to initiate requests)
2. CHECK (that the IUT is initiating requests)
3. TRANSMIT DeviceCommunicationControl-Request,
 'Time Duration' = (a value T > 1, in minutes, selected by the tester),
 'Enable/Disable' = DISABLE_INITIATION,
 'Password' = (any appropriate password if required)
4. RECEIVE BACnet-SimpleACK-PDU
5. MAKE (a condition that would normally cause the IUT to initiate requests)
6. CHECK (that the IUT has stopped initiating requests)
7. VERIFY (any supported property) = (any valid value)
8. TRANSMIT Who-Is-Request
9. RECEIVE I-Am-Request
10. WAIT (time T)
11. MAKE (a condition that would normally cause the IUT to initiate requests)
12. CHECK (that the IUT is initiating requests)

Notes to Tester: Steps 2 through 9 must be executed within time T.

9.24.1.10 Disable of Service Initiation Restored by DeviceCommunicationControl

Purpose: To verify the correct execution of the DeviceCommunicationControl service when DISABLE_INITIATION is requested for a finite time duration. Communication is restored using the DeviceCommunicationControl service.

Configuration Requirements: The IUT shall be configured to initiate client requests.

Test Steps:

1. MAKE (a condition that would normally cause the IUT to initiate requests)
2. CHECK (that the IUT is initiating requests)
3. TRANSMIT DeviceCommunicationControl-Request,
 'Time Duration' = (a value in minutes > time required to execute all test steps),
 'Enable/Disable' = DISABLE_INITIATION,
 'Password' = (any appropriate password if required)
4. RECEIVE BACnet-SimpleACK-PDU
5. MAKE (a condition that would normally cause IUT to initiate requests)
6. CHECK (that the IUT has stopped initiating requests)
7. VERIFY (any supported property) = (any valid value)
8. TRANSMIT Who-Is-Request
9. RECEIVE I-Am-Request
10. TRANSMIT DeviceCommunicationControl-Request,
 'Enable/Disable' = ENABLE,
 'Password' = (any appropriate password if required)
11. MAKE (a condition that would normally cause the IUT to initiate requests)
12. CHECK (that the IUT is initiating requests)

16.1.2 Service Procedure

After verifying the validity of the request, including the 'Time Duration' and 'Password' parameters, the responding BACnetuser shall respond with a 'Result(+)' service primitive. If the request is valid and the 'Enable/Disable' parameter is DISABLE_INITIATION, the responding BACnet-user shall discontinue the initiation of messages except for I-Am requests issued in accordance with the Who-Is service procedure, I-Have requests issued in accordance with the Who-Has service procedure, and ConfirmedAuditNotification and UnconfirmedAuditNotification requests. Communication shall be disabled in this manner until either the 'Time Duration' has expired or a valid DeviceCommunicationControl (with 'Enable/Disable' = ENABLE) or,

if supported, a valid ReinitializeDevice (with 'Reinitialized State of Device' = WARMSTART or COLDSTART) message is received.

Problem:

Test 9.24.1.9 and 9.24.1.10 require the test to be executed if the IUT can initiate any requests. 9.24.1.6 and 9.24.1.8 with similar requirements allow the test to be skipped if the IUT only initiates I-Am.

Question:

Can 9.24.1.9 and 9.24.1.10 be skipped if the IUT can only initiate I-Am, I-Have and ConfirmedAuditNotification and UnconfirmedAuditNotification services?

Response:

Yes