

Clarification Request

References: BTL Specified Tests section 13.X2 Application State Machine Tests

Background / Proposed Solution:

There is a BTL Specified Test 13.X2.1 APDU Retry and Timeout Test, but no test that after the near-simultaneous inauguration of ConfirmedCOVNotification and ConfirmedEventNotification, with different invokeIDs, that the IUT preserves a distinct state machine for each invokeID which it has initiated. Proposed is new BTL Specified test:

13.X2.2 Distinct State Machine for each Invoke ID Simultaneously Initiated

Reason for Change: No relevant test exists in 135.1. This test is in proposal DO-026.

Dependencies: None

Purpose: Verify that the IUT will re-send confirmed requests for which no response is received, after the near-simultaneous inauguration of Confirmed requests with different invokeIDs, and will cease re-sending confirmed requests for each, when a response is received, in either order.

Test Concept: Make the IUT initiate two near-simultaneous confirmed requests to a non-responsive device and verify the requests are retried after the APDU timeout. Then send a response to one but not the other, and see that one ceases while the other continues to re-send.

Configuration Requirements: A TD which can selectively not respond to a ConfirmedRequest, must be bound to the IUT. The IUT shall be configured with a value of at least 2 in its Number_Of_APDU_Retries property and a non-zero value in its APDU_Timeout property.

Test Steps:

1. MAKE (A condition that will cause the IUT to generate a confirmed request)
2. RECEIVE Confirmed Request,

SOURCE =	IUT,
DESTINATION =	TD
invokeID =	I1
3. MAKE (A condition that will cause the IUT to generate another confirmed request, with different invokeID)
4. RECEIVE Confirmed Request,

SOURCE =	IUT,
DESTINATION =	TD
invokeID =	I2
5. WAIT (APDU_Timeout)
6. RECEIVE Confirmed Request

SOURCE =	IUT,
DESTINATION =	TD,
Invoke ID =	Invoke ID from the confirmed request in step 2
7. CHECK (Verify time between retries is > APDU_Timeout)
8. RECEIVE Confirmed Request

	SOURCE =	IUT,
	DESTINATION =	TD,
	Invoke ID =	Invoke ID from the confirmed request in step 4
9. TRANSMIT	SimpleACK-PDU	
	Invoke ID =	Invoke ID from the confirmed request in step 2
10. WAIT (APDU_Timeout)		
11. RECEIVE	Confirmed Request	
	SOURCE =	IUT,
	DESTINATION =	TD,
	Invoke ID =	Invoke ID from the confirmed request in step 4
12. CHECK	(no additional re-send of the confirmed request with Invoke ID seen in step 2)	

Notes to Tester: Repeat the test, but reverse in Step 9. which (vis. the earlier vs the later Invoke ID) response is made, and in Step 11. which Invoke ID appears, and in Step 12. the opposite Invoke ID is the one unseen.

Response:

The BTL-WG does not feel the addition of this test adds sufficient benefit.