Clarification Request

References: "e.g" <mark>Specified Tests 14.0.Final or 135.1-2013 Test-Number</mark>

Date of BTL-WG Response: January 27, 2022

Background: "e.g" <mark>Specified Tests 14.0.Final or 135.1-2013 Test-Number</mark>

From the Access Point Object definition:

12.31.16 Lockout

This property, of type BOOLEAN, is an indication whether (TRUE) or not (FALSE) the access controlled point this object represents is in a lockout state. <mark>When the access point is in a lockout state, any access request shall always be denied</mark>, except for an active credential for which the value LOCKOUT is contained in the Authorization_Exemptions property of the corresponding Access Credential object. <mark>For each denied access request, the Access_Event property shall be set to DENIED_LOCKOUT</mark>. An Access Point object may be set to a lockout state due to too many failed access attempts, as defined in the Max_Failed_Attempts property, or by writing TRUE to this property.

<mark>When the property Lockout becomes TRUE due to too many failed access attempts, then the Access_Event property shall be set to LOCKOUT_MAX_ATTEMPTS.</mark> If TRUE is written to this property for any other reason, the Access_Event property shall be set to LOCKOUT_OTHER. When the Lockout property becomes FALSE, the Access_Event property shall be set to LOCKOUT_RELINQUISHED.

If the Lockout property is present, then the Lockout_Relinquish_Time property shall also be present.

12.31.20 Max_Failed_Attempts

This property, of type Unsigned, shall specify the maximum number of successive failed access attempts before the Lockout property is set to TRUE. <mark>If the Failed_Attempts property becomes</mark> greater than or <mark>equal to the value of this property</mark> and this property is not zero, <mark>the Lockout property is set to TRUE</mark>. Zero indicates that the Lockout property is not set to TRUE as the result of failed access attempts.

If the Max_Failed_Attempts property is present, then the Failed_Attempts property shall also be present.

From test 7.3.2.X56.7 Lockout State Test:

15.   IF (Failed_Attempts and Max_Failed_Attempts are supported) THEN
        REPEAT X= (1 to <mark>Max_Failed_Attempts + 1</mark>) DO {
        READ FailedAttempts = Failed_Attempts
        MAKE (present credential C2 at credential reader for this access point)
        VERIFY (Failed_Attempts = FailedAttempts + 1)
        }

16. VERIFY (Lockout = TRUE)
17. VERIFY (Access_Event = LOCKOUT_MAX_ATTEMPTS)
18. VERIFY (Access_Event_Time = the time that Lockout was set to TRUE)
19. VERIFY (Access_Event_Credential = C2)

Problem:

In test 7.3.2.X56.7 Lockout State Test, a credential with no access rights to the access point is presented Max_Failed_Attempts + 1 in step 15.

The intent is that the Lockout property is set to True when too many attempts occurand that an Access_Event of LOCKOUT_MAX_ATTEMPTS is generated.

The problem is that this occurs when Max_Failed_Attempts are made, not when Max_Failed_Attempts + 1 are made.

Because the loop goes to Max_Failed_Attempts+1, Access_Event will be DENIED_LOCKOUT in step 17.

In contrast, if the loop is stopped at Max_Failed_Attempts, Access_Event will be LOCKOUT_MAX_ATTEMPTS, as expected, in step 17.

Question:

Should the loop in step 15 stop at Max_Failed_Attempts instead of Max_Failed_Attempts + 1.

Response:
Yes