

Clarification Request

References: ASHRAE 135.1-2023

Date of BTL-WG Response: December 12, 2024

Background: ASHRAE 135.1-2023 - 7.3.1.12 - Notify_Type Test

Purpose: To verify that the value of the Notify_Type property determines whether an event notification is transmitted as an alarm or as an event.

Configuration Requirements: The IUT shall be configured with two event-generation objects, E1 and E2. Object E1 shall be configured with a Notify_Type of ALARM and E2 shall be configured with a Notify_Type of EVENT. The value of the Transitions parameter for all recipients shall be (TRUE, TRUE, TRUE)

In the test description below X1 and X2 are used to designate the pMonitoredValue algorithm parameter linked to E1 and E2 respectively. X1 and X2 shall be set to a value that results in a NORMAL condition of E1 and E2, respectively.

Test Steps:

1. VERIFY (E1), pCurrentState = NORMAL
2. VERIFY (E2), pCurrentState = NORMAL
3. WAIT (pTimeDelay + Notification Fail Time)
4. IF (X1 is writable) THEN
 - WRITE X1 = (a value that will cause a transition in E1)
- ELSE
 - MAKE (X1 a value that will cause a transition in E1)
5. IF (the transition is not a FAULT transition) THEN
 - IF (the transition is a TO-OFFNORMAL transition) THEN
 - WAIT (pTimeDelay)
 - ELSE
 - WAIT (pTimeDelayNormal)
6. BEFORE Notification Fail Time
 - RECEIVE ConfirmedEventNotification-Request,
 - 'Process Identifier' = (any valid process ID),
 - 'Initiating Device Identifier' = IUT,
 - 'Event Object Identifier' = (E1),
 - 'Time Stamp' = (any valid time stamp),
 - 'Notification Class' = (the class corresponding to the object being tested),
 - 'Priority' = (any valid value),
 - 'Event Type' = (any valid event type),
 - 'Message Text' = (optional, any valid message text),
 - 'Notify Type' = ALARM,
 - 'AckRequired' = TRUE | FALSE,
 - 'From State' = NORMAL,
 - 'To State' = (any valid value),
 - 'Event Values' = (values appropriate to the event type)
7. TRANSMIT BACnet-SimpleACK-PDU
8. IF (X2 is writable) THEN
 - WRITE X2 = (a value that will cause a transition in E2)
- ELSE
 - MAKE (X2 a value that will cause a transition in E2)
9. IF (the transition is not a FAULT transition) THEN
 - IF (the transition is a TO-OFFNORMAL transition) THEN
 - WAIT (pTimeDelay)
 - ELSE
 - WAIT (pTimeDelayNormal)
10. BEFORE Notification Fail Time RECEIVE
 - ConfirmedEventNotification-Request,

'Process Identifier' = (any valid process ID),
'Initiating Device Identifier' = IUT,
'Event Object Identifier' = (E2),
'Time Stamp' = (any valid time stamp),
'Notification Class' = (the class corresponding to the object being tested), 'Priority' = (any valid value),
'Event Type' = (any valid event type),
'Message Text' = (optional, any valid message text),
'Notify Type' = EVENT,
'AckRequired' = TRUE | FALSE,
'From State' = NORMAL,
'To State' = (any valid value),
'Event Values' = (values appropriate to the event type)

11. TRANSMIT BACnet-SimpleACK-PDU

Notes to Tester: If Notify_Type is writable this test may be performed with one event generating object by changing Notify_Type from ALARM to EVENT in order to cover both cases.

Explanation:

This test has to be executed for Alarming internal, external, LifeSafety-B, Access Control-B, Trending-ATR-B and Trending-AMVR-B.

Problem:

The Test includes Waiting pTimeDelay and pTimeDelayNormal. Neither the Trend Log Object nor the Trend Log Multiple Object can have these properties. The same situation exists with the Event Enrollment Object.
Furthermore, for intrinsic reporting objects the TimeDelayNormal property is optional.

Question:

Can the test steps that include pTimeDelay or pTimeDelayNormal be skipped when these parameters are not valid for the object under test?

Response:

Yes