

'From State' = NORMAL,
 'To State' = FAULT,
 'Event Values' = (pCurrentReliability, pStatusFlags,
 pMonitoredValue,
 pMinimumNormalValue | pMaximumNormalValue)

5. TRANSMIT BACnet-SimpleACK-PDU
6. VERIFY pCurrentReliability = UNDER_RANGE | OVER_RANGE
7. VERIFY pCurrentState = FAULT
8. VERIFY pStatusFlags = (TRUE, TRUE,?,?)
9. IF (pMonitoredValue is writable) THEN
 WRITE pMonitoredValue = (a value greater than or equal to pMinimumNormalValue,
 and pMonitoredValue is less than or equal to pMaximumNormalValue)
 ELSE
 MAKE (pMonitoredValue = a value, greater than or equal to pMinimumNormalValue,
 and pMonitoredValue is less than or equal to pMaximumNormalValue)

10. BEFORE **Notification Fail Time**,

RECEIVE ConfirmedEventNotification-Request,
 'Process Identifier' = (any valid process identifier),
 'Initiating Device Identifier' = IUT,
 'Event Object Identifier' = OI,
 'Time Stamp' = (any valid time stamp),
 'Notification Class' = (the class corresponding to the object OI being
 tested),
 'Priority' = (the value configured to correspond to a TO_FAULT
 transition),
 'Event Type' = CHANGE_OF_RELIABILITY,
 'Message Text' = (optional, any valid message text),
 'Notify Type' = EVENT | ALARM
 'AckRequired' = TRUE | FALSE,
 'From State' = FAULT,
 'To State' = NORMAL,
 'Event Values' = (pCurrentReliability, pStatusFlags,
 pMonitoredValue,
 pMinimumNormalValue |
 pMaximumNormalValue)

11. TRANSMIT BACnet-SimpleACK-PDU
12. VERIFY pCurrentReliability = NO_FAULT_DETECTED
13. VERIFY pCurrentState = NORMAL
14. VERIFY pStatusFlags = (FALSE, FALSE,?, ?)

Problem:

The BTL Specified Tests 16.1.Final tests 8.4.X9 / 8.5.X9.15 request that 'event value' include the pMinimumNormalValue | pMaximumNormalValue in Step 4 and 10

The problem is that I can't find this requirement in the BACnet Standard

The BACnet Standard 135-2016 define the event parameters in:

13.2.5.3 Fault Event Notifications

The content of the property-values parameter of CHANGE_OF_RELIABILITY event notifications depends on the type of the event-initiating object. The property values required to be conveyed are specified in Table 13-5, and shall be included in the order shown in the table. Object types that are not included in Table 13-5 are not required to include any extra properties in CHANGE_OF_RELIABILITY notifications.

Question:

1. Should the tests be fixed by modifying the 'Event Values' in Step 4 and 10?

Replace

'Event Values' = (pCurrentReliability, pStatusFlags, pMonitoredValue, pMinimumNormalValue | pMaximumNormalValue)

by

'Event Values' = (pCurrentReliability, pStatus, Flags, (A list of valid values for properties required to be reported for O1, and 0 or more other properties of O1))

2. In TEST PLAN Revision 16.1, the test designation is different from Specified Tests 16.1.

Replace

BTL - 8.5.X9 - CHANGE_OF_RELIABILITY with the FAULT_OUT_OF_RANGE Algorithm (UnconfirmedEventNotification)

by

BTL - 8.5.X9.15 - CHANGE_OF_RELIABILITY with the FAULT_OUT_OF_RANGE Algorithm (UnconfirmedEventNotification)

Response:

1. YES
2. There are inconsistencies of test numbering between confirmed and unconfirmed tests for change of reliability. The inconsistencies will be fixed.