

Clarification Request

Request from: Craig Gemmill (craig.gemmill@tridium.com)

References: BTL Test Plan-9.0.final

Stage: ☒Request, ☐Listed, ☐Analysis, ☒Resolved

Actions necessitated: ☒ Checklist/Test Plan change, ☐ BTL Specified Tests change,
Section 7.4.1, Test numbers: 7.3.2.24.X4
☐ SSPC Interpretation required, ☐ Implementation Guidelines change,

Date of BTL-WG Response: _____
☐ All actions necessitated have been completed

Background:

In the BTL Test Plan-9.0.final document, item 7.4.1 lists the Base Requirements for the “Trending – View and Modify Trends – External – B” BIBB. The last item specifies BTL test “7.3.2.24.X4 – Interval Gathering of External Trends Test”. This test requires that the trend log be able to acquire records using the Polled method. However, it is my understanding that the BTL does not intend to mandate the use of any of the three trend log acquisition mechanisms. For example, consider a trend log monitoring a BACnet object property in a remote device, where the Logging_Type is TRIGGERED or COV. I believe this type of device should also be allowed to support the T-VMT-E-B BIBB. There do not appear to be any other tests in the Base Requirements that mandate a particular Logging_Type, so I feel this test is out of place and should be moved to a section specific to Interval-based logging.

A trend log using Logging_Type of TRIGGERED may be driven by a trigger, or it may simply be because the acquisition criteria are not completely BACnet-visible. The records may be acquired through COV, or through polling, but not necessarily in the exact fashion mandated by the property clauses in 12.25 of 135-2010, specifically 12.25.9. For example, according to 12.25.9, a log may not be constrained to use either POLLED or COV for acquiring log records, but must be able to switch between them, which has never been the requirement before. My belief is that the committee did not intend with its statement in 12.25.9 to exclude implementations that exclusively used the POLLED or COV Logging_Types, but that is what this language effectively accomplishes.

7.3.2.24.X4 Interval Gathering of External Trends Test

Reason for Change: To make this test generic for all log objects. This test exactly, has been included in 135.1 by virtue of 135.1-2009i-14

Purpose: To verify the IUT uses ReadProperty to pull external data at the specified intervals.

Test Concept: The log object is configured to acquire data from the TD using polling. The TD verifies the receipt of ReadProperty requests are at the Log.Interval set.

Configuration Requirements: The log shall be configured to be polling for external trends during the entire time of this test. The Stop_When_Full property, if configurable, shall be set to FALSE. Enable shall be set to TRUE. The TD shall be configured so that it does not support execution of ReadPropertyMultiple.

Test Steps:

1. BEFORE (Log_Interval)
REPEAT X = (for each property logged) DO
RECEIVE ReadProperty-Request,

- ‘Object Identifier’ = (Object that contains the monitored property)
 - ‘Property Identifier’ = (external property that is being trended)
- TRANSMIT ReadProperty-Ack
 - ‘Object Identifier’ = (Object that contains the monitored property)
 - ‘Property Identifier’ = (property being monitored)
 - ‘Property Value’ = (any value)
- 2. WAIT (Log Interval)
- 3. REPEAT X = (for each property logged) DO
 - RECEIVE ReadProperty-Request,
 - ‘Object Identifier’ = (Object that contains the monitored property)
 - ‘Property Identifier’ = (external property that is being trended)
 - TRANSMIT ReadProperty-Ack
 - ‘Object Identifier’ = (Object that contains the monitored property)
 - ‘Property Identifier’ = (property being monitored)
 - ‘Property Value’ = (any value)
- 4. CHECK (to ensure all properties logged are requested)

Question:

Can the fourth test in BTL Test Plan-9.0.final, section 7.4.1, named “BTL – 7.3.2.24.X4 – Interval Gathering of External Trends Test”, be moved to a section specific to logs that claim to support Logging_Type of POLLED?

Response:

No. It states in the T-VMT-E-B BIBB that Log_Interval and Log_DeviceObjectProperty properties must be writable. So an implementation has to support, at the least, POLLED.