

## Clarification Request

**References:** ASHRAE 135-2010 section 7.3.2.24.8

**Date of BTL-WG Response:** Dec 4, 2012\_\_\_\_\_

### Background / Proposed Solution:

The existing test 7.3.2.24.8 tests the effect of writing Record\_Count to 0, but doesn't mention checking Total\_Record\_Count to ensure that it isn't consequently also zeroed.

#### 7.3.2.24.8 Record\_Count Test

Reason for Change: *To make this test generic for all logging objects.* The 135.1-2009 version of this test had incorrectly expected the Log\_Buffer to contain no records. This test in some form will become included in 135.1 by virtue of 135.1-2009j-14 when that is approved.

Dependencies: ReadProperty Service Execution Tests, 9.18; WriteProperty Service Execution Tests, 9.22.

BACnet Reference Clause: 12.25.15.

Purpose: To verify that the Record\_Count property indicates the number of records that are stored in the Log\_Buffer.

Test Concept: The ~~Trend-Logging~~ Logging object is configured to acquire data by whatever means. Record\_Count is set to zero and Log\_Buffer is read to verify ~~no records are present~~ *only one record is present and it is the buffer-purged event*. Collection of data proceeds until Record\_Count is about Buffer\_Size/2, collection is halted and Log\_Buffer is read to verify the Record\_Count value. Collection then resumes until Buffer\_Size records are read; collection is then halted and Log\_Buffer read to verify Record\_Count again.

Configuration Requirements: Start\_Time, if present, shall be configured with a date and time preceding the beginning of the test. Stop\_Time, if present shall be configured with the latest possible date and time, in order that it occur after the end of the test. Log\_Enable shall be set to FALSE.

Test Steps:

1. WRITE Record\_Count = 0
2. WAIT **Internal Processing Fail Time**
3. ~~CHECK ( that Log\_Buffer has no records )~~
3. *VERIFY (Log\_Buffer contains 1 entry, and it is the buffer-purged event)*
4. WRITE Log\_Enable = TRUE
5. WHILE ( Record\_Count < Buffer\_Size/2 ) DO { }
6. WRITE Log\_Enable = FALSE
7. WAIT **Internal Processing Fail Time**
8. ~~VERIFY~~*CHECK* ( that Log\_Buffer has the number of records indicated by Record\_Count )

9. WRITE ~~Log~~Enable = TRUE
10. WHILE ( Record\_Count < Buffer\_Size ) DO { }
11. WRITE ~~Log~~Enable = FALSE
12. WAIT **Internal Processing Fail Time**
13. ~~VERIFY~~CHECK ( *that* Log\_Buffer has the number of records indicated by Record\_Count )

There is the following language in preambles of 12.25, 12.27, and 12.30 implicitly stating the reasons why Total\_Record\_Count should not be zeroed.

A missed notification may be detected by a subscriber if the 'Current Notification' parameter received in the previous BUFFER\_READY notification is different than the 'Previous Notification' parameter of the current BUFFER\_READY notification. If the ReadRange-ACK response to the ReadRange request issued under these conditions has the FIRST\_ITEM bit of the 'Result Flags' parameter set to TRUE, Trend Log records have probably been missed by this subscriber.

The acquisition of log records by remote devices has no effect upon the state of the Trend Log object itself. This allows completely independent, but properly sequential, access to its log records by all remote devices. Any remote device can independently update its records at any time.

Additional language stipulating that the effect of writing Record\_Count to 0, doesn't also zero Total\_Record\_Count might be something that warrants SSPC discussion/clarification.

**Question:**

Is it a defect if writing Record\_Count to 0 also zeroes Total\_Record\_Count? Should the existing test 7.3.2.24.8 check Total\_Record\_Count to ensure that it isn't also zeroed?

**Response:**

Yes. BTL-WG will ensure that a test for this is included in the next Test Package.