

Clarification Request

References: Trend Log behavior at Protocol_Revision 4

Background / Proposed Solution:

There are numerous tests of Trend Log that require functionality expressed explicitly in 135-2008 (Protocol_revision 7) but much less clearly stated in 135-2004 (Protocol_Revision 4). For instance, in section 12.25.5 Enable of 135-2008 it states that "Log_Buffer records of type log-status are recorded without regard to the value of the Enable property."

A customer, whose device does not log status entries of time-change when the Log_Enable property is FALSE, claims: It should be noted that we are only claiming conformance to protocol revision 4 at this time. There are some differences to functionality for revision 8 that we have not implemented yet, so we can not currently claim conformance to revision 7.

The distinctions of wording are:

135-2004

log-status	This choice represents a change in the status or operation of the Trend Log object. Whenever one of the events represented by the flags listed below occurs, except as noted , a record shall be appended to the buffer.
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135-2008

log-status	This choice represents a change in the status or operation of the Trend Log object. Whenever one of the events represented by the flags listed below occurs, a record shall be appended to the buffer.
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135-2004 Log_Enable

This property, of type BOOLEAN, indicates and controls whether (TRUE) or not (FALSE) logging is enabled. A value of FALSE overrides the time interval defined by Start_Time and Stop_Time. If logging is otherwise enabled by the Start_Time and Stop_Time properties, changes to the value of the Log_Enable property shall be recorded in the log. ~~When the device begins operation the value TRUE shall be recorded in the log.~~

135-2008 Enable

This property, of type BOOLEAN, indicates and controls whether (TRUE) or not (FALSE) logging of events and collected data is enabled. Logging occurs if and only if Enable is TRUE, Local_Time is on or after Start_Time, and Local_Time is before Stop_Time. If Start_Time contains any wildcards, then it shall be considered equal to 'the start of time'. If Stop_Time contains any wildcards, then it shall be considered equal to 'the end of time'. Log_Buffer records of type log-status are recorded without regard to the value of the Enable property.

If Enable is writable, attempts to write the value TRUE to the Enable property while Stop_When_Full is TRUE and Record_Count is equal to Buffer_Size shall cause a

Result(-) response to be issued, specifying an 'Error Class' of OBJECT and an 'Error Code' of LOG_BUFFER_FULL.

135-2004 Log_Interval

~~This property, of type Unsigned, specifies the periodic interval in hundredths of seconds for which the referenced property is to be logged. If this property has the value zero then the Trend Log shall issue COV subscriptions for the referenced property. The value of this property must be non-zero if COV_Resubscription_Interval is not present. This property must be writable if present.~~

135-2008 Log_Interval

This optional property, of type Unsigned, specifies the periodic interval in hundredths of seconds for which the referenced property is to be logged when Logging_Type has the value POLLED. If the Logging_Type property has either of the values COV or TRIGGERED, then the value of the Log_Interval property shall be zero and ignored.

To maintain compatibility with previous versions of the standard, devices supporting COV data collection shall support switching between COV and polled modes in response to writes to Log_Interval. If the Logging_Type property has the value POLLED, changing the Log_Interval property from a non-zero value to the value zero shall change the value of Logging_Type to COV, and shall cause the Trend Log object to issue COV subscriptions for the referenced property. If the Logging_Type property has the value COV, writing a non-zero value to the Log_Interval property shall change the value of Logging_Type to POLLED, and shall cause the Trend Log object to periodically poll the monitored property.

If present, this property shall be writable if Logging_Type has either the value POLLED or the value COV. This property shall be read-only if Logging_Type has the value TRIGGERED.

What latitude do we grant to applicants at Protocol revision 4, regarding Trend Log behavior?

Response:

The intent was already clear in the 135-2004 section on Record_Count. We give no latitude.