Error muting function

1. Introduction

The Error Muting Functionality has been implemented in the eWON since firmware v11.1s0. This functionality recognizes error patterns in order to prevent the flood of repetitive information in the Event log. All types of event (errors, warnings and traces) are included in this feature.

2. General behavior

A pattern is defined by a repetition of the same set of 1 to 10 events appearing in the same order (for simplicity purpose, only a single pattern is recognized).

The first two repetitions of the pattern will be shown but the subsequent ones from the same pattern will be muted.

Whenever an event that does not match the current pattern occurs, a message with the amount of muted repetitions will be added to the Event log.

The elapsed time between the two latest occurrences of a pattern is recorded as $\Delta t$. If a pattern does not appear for more than $10 \Delta t + 1$ minute, the pattern will be un-muted and subsequently re-muted as needed.

2.1. Enabling / Disabling the Error muting

The Error mute functionality can be active or disabled depending on your actions. By default it will be:

- disabled when a user upgrades an existing configuration.
- enabled when a user makes a new configuration.

It is possible to disable/enable the functionality by editing the SYSTEM cfg. To access the parameter, browse to

```
Configuration > System Setup > Storage > Edit SYSTEM Cfg
```

and double-click on “ErrorMuteEnabled” in the list.

As a Boolean, 2 values are possible:

- 0 = disable the feature
- 1 = enable the feature
It is not necessary to restart the eWON after changing the “ErrorMuteEnabled” parameter.

2.2. Interface

When the Error Mute is enabled, repetitive error patterns will be muted.

<table>
<thead>
<tr>
<th>Event log</th>
<th>Event Class</th>
<th>All Events</th>
<th>Reporting Level</th>
<th>Per Page</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Warning</td>
<td>200</td>
<td></td>
</tr>
</tbody>
</table>

Whenever an Event that is not in the recorded pattern occurs, the muting stops.
The count of times the pattern was muted is reported (at “Warning level”).
When the ongoing pattern occurs again after more than 10 * the last Δt + 1 minute, an un-mute message is added to the event log.

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1 The timings shown here are for illustration purposes and do not reflect the actual values at runtime.
Revision Information

Revision

Revision History

<table>
<thead>
<tr>
<th>Revision Level</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>29/04/2016</td>
<td>Original Document</td>
</tr>
</tbody>
</table>

Document build number: 18

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