

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 Δt . 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.

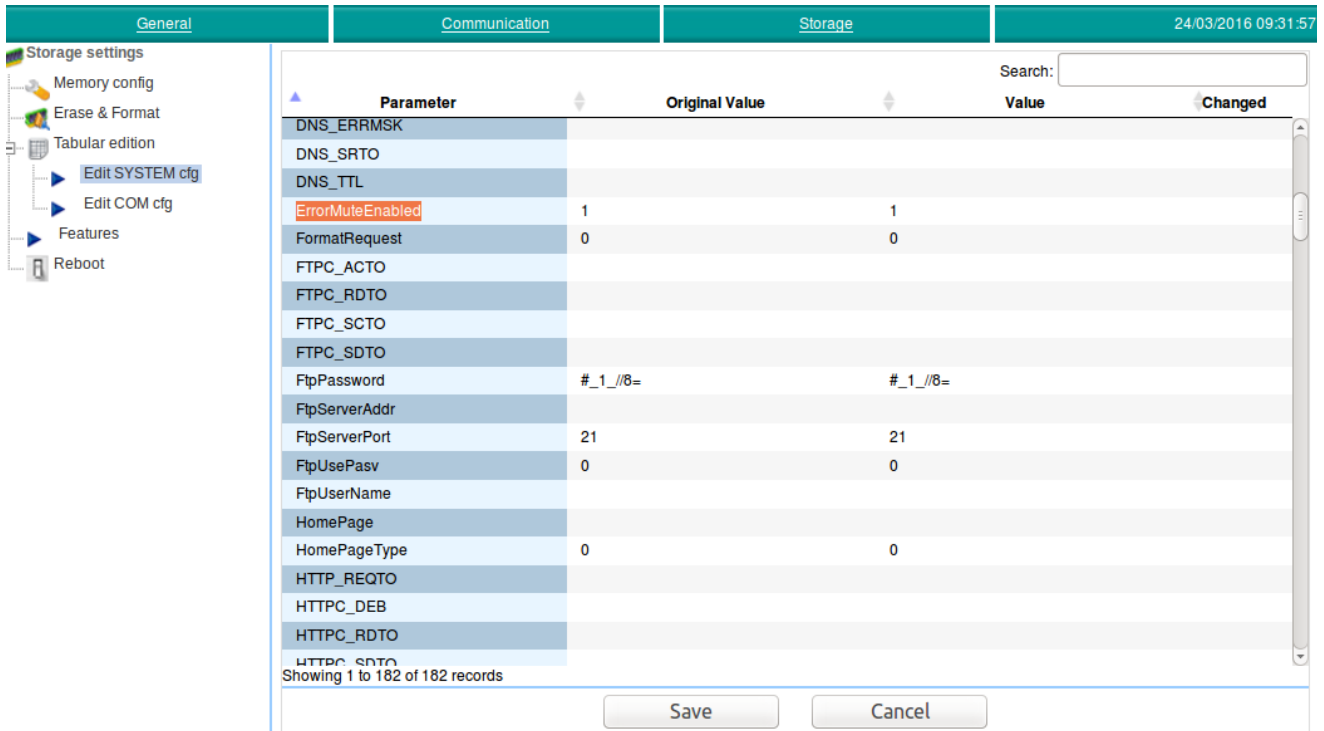
It is possible to disable/enable the functionality by editing the SYSTEM cfg. To access the parameter, browse to

```
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



Parameter	Original Value	Value	Changed
DNS_ERRMSK			
DNS_SRT0			
DNS_TTL			
ErrorMuteEnabled	1	1	
FormatRequest	0	0	
FTPC_ACTO			
FTPC_RDTO			
FTPC_SCTO			
FTPC_SDTO			
FtpPassword	#_1_//8=	#_1_//8=	
FtpServerAddr			
FtpServerPort	21	21	
FtpUsePasv	0	0	
FtpUserName			
HomePage			
HomePageType	0	0	
HTTP_REQTO			
HTTFC_DEB			
HTTFC_RDTO			
HTTFC_SDTO			

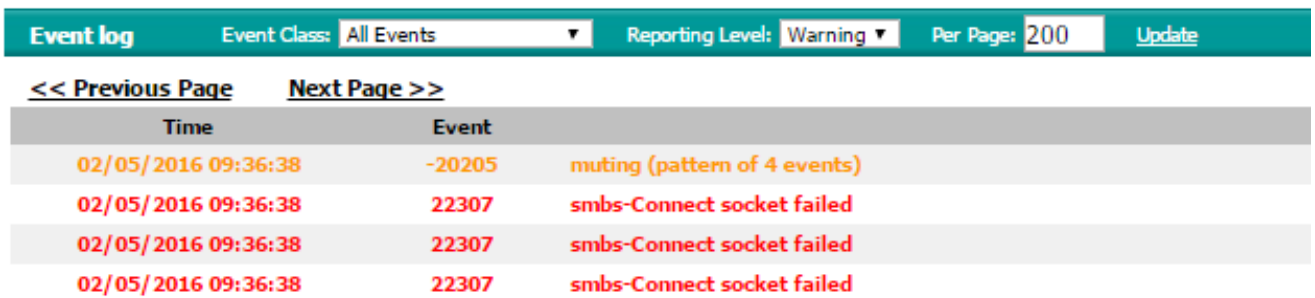
Showing 1 to 182 of 182 records

Save Cancel

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.



Event log Event Class: All Events Reporting Level: Warning Per Page: 200 Update

<< Previous Page Next Page >>

Time	Event
02/05/2016 09:36:38	-20205 muting (pattern of 4 events)
02/05/2016 09:36:38	22307 smbs-Connect socket failed
02/05/2016 09:36:38	22307 smbs-Connect socket failed
02/05/2016 09:36:38	22307 smbs-Connect socket failed

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”).

Event log		
Event Class:	All Events	Reporting Level: Warning
Per Page:	200	Update
<< Previous Page Next Page >>		
Time	Event	
02/05/2016 09:36:38	-20205	muting (pattern of 4 events)
02/05/2016 09:36:38	22307	smbs-Connect socket failed
02/05/2016 09:36:38	22307	smbs-Connect socket failed
02/05/2016 09:36:38	22307	smbs-Connect socket failed
02/05/2016 09:36:38	22307	smbs-Connect socket failed
02/05/2016 09:36:38	22307	smbs-Connect socket failed
02/05/2016 09:36:38	22307	smbs-Connect socket failed
02/05/2016 09:34:53	-20205	muting (pattern of 8 events)
02/05/2016 09:34:53	22307	smbs-Connect socket failed
02/05/2016 09:34:35	22307	smbs-Connect socket failed
02/05/2016 09:34:18	-22510	mbsios-Modbus Enter slow poll mode (Address 20 - 50.50.52.52)
02/05/2016 09:34:18	-20205	pattern of 1 event muted 5 times
02/05/2016 09:33:57	-20205	muting (pattern of 1 event)
02/05/2016 09:33:57	22307	smbs-Connect socket failed
02/05/2016 09:33:39	22307	smbs-Connect socket failed
02/05/2016 09:33:20	-22510	mbsios-Modbus Enter slow poll mode (Address 20 - 50.50.52.52)
02/05/2016 09:33:20	-20205	pattern of 1 event muted 3 times
02/05/2016 09:33:10	-20205	muting (pattern of 1 event)

When the ongoing pattern occurs again after more than 10 * the last Δt + 1 minute, an un-mute message is added to the event log¹.

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



Revision

Revision History

Revision Level	Date	Description
1.0	29/04/2016	Original Document

Document build number: 18

Note concerning the warranty and the rights of ownership:

The information contained in this document is subject to modification without notice. Check <http://ewon.biz/support> for the latest documents releases.

The vendor and the authors of this manual are not liable for the errors it may contain, nor for their eventual consequences.

No liability or warranty, explicit or implicit, is made concerning the quality, the accuracy and the correctness of the information contained in this document. In no case can the manufacturer's responsibility be called for direct, indirect, accidental or other damage occurring from any defect of the product or mistakes coming from this document.

The product names are mentioned in this manual for information purposes only. The trade marks and the product names or marks contained in this document are the property of their respective owners.

This document contains materials protected by the International Copyright Laws. All reproduction rights are reserved. No part of this handbook can be reproduced, transmitted or copied in any way without written consent from the manufacturer and/or the authors of this handbook.

eWON sa