

# Events Log

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## Section overview

Since keeping track of all **events** that occur in the system is crucial, JeraSoft Billing offers you the **Events Log** section where you can view information regarding all **errors**, **alerts**, and **messages**, as well as configure the rules for email notifications sending. The section is divided into two tabs: **Events Log** and **Configuration**.

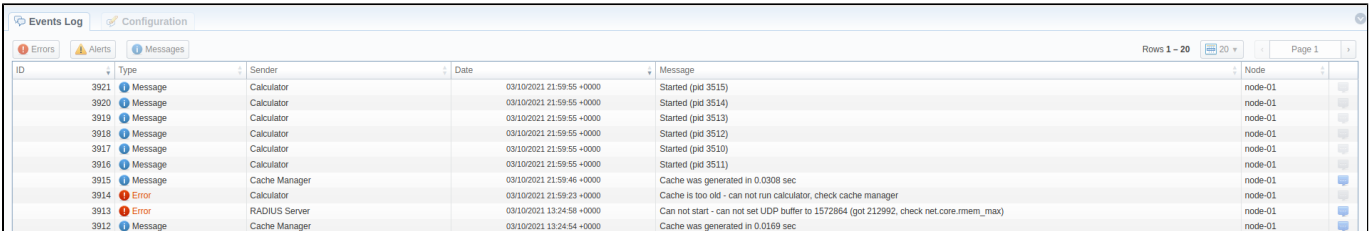
## Events Log tab

Information in the tab is presented in the form of a list of all events recorded by the system. For example, the system records the following events:

- incoming or outgoing events of the client that are not registered within the system;
- number prefixes that are not registered within the system;
- incoming call prices that are higher than outgoing ones;
- incoming or outgoing calls that were rejected and others.

Tab structure is presented in the screenshot below:

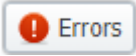

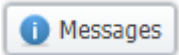
Screenshot: Events Log tab




ID	Type	Sender	Date	Message	Node
3921	Message	Calculator	03/10/2021 21:59:55 +0000	Started (pid 3515)	node-01
3920	Message	Calculator	03/10/2021 21:59:55 +0000	Started (pid 3514)	node-01
3919	Message	Calculator	03/10/2021 21:59:55 +0000	Started (pid 3513)	node-01
3918	Message	Calculator	03/10/2021 21:59:55 +0000	Started (pid 3512)	node-01
3917	Message	Calculator	03/10/2021 21:59:55 +0000	Started (pid 3510)	node-01
3916	Message	Calculator	03/10/2021 21:59:55 +0000	Started (pid 3511)	node-01
3915	Message	Cache Manager	03/10/2021 21:59:46 +0000	Cache was generated in 0.0308 sec	node-01
3914	Error	Calculator	03/10/2021 21:59:23 +0000	Cache is too old - can not run calculator, check cache manager	node-01
3913	Error	RADIUS Server	03/10/2021 13:24:58 +0000	Can not start - can not set UDP buffer to 1572864 (got 212992, check net.core.rmem_max)	node-01
3912	Message	Cache Manager	03/10/2021 13:24:54 +0000	Cache was generated in 0.0169 sec	node-01

Column Name	Description
ID	Identification number of the event
Type	Category of the event in the system ( <b>error</b> , <b>alert</b> , or <b>message</b> )
Sender	Name of the system service that sent the event
Date	Date and time when the event occurred
Message	Description of the event
Node	Node ID that sent a notification

Functional **buttons/icons**, presented in the tab, are as follows:

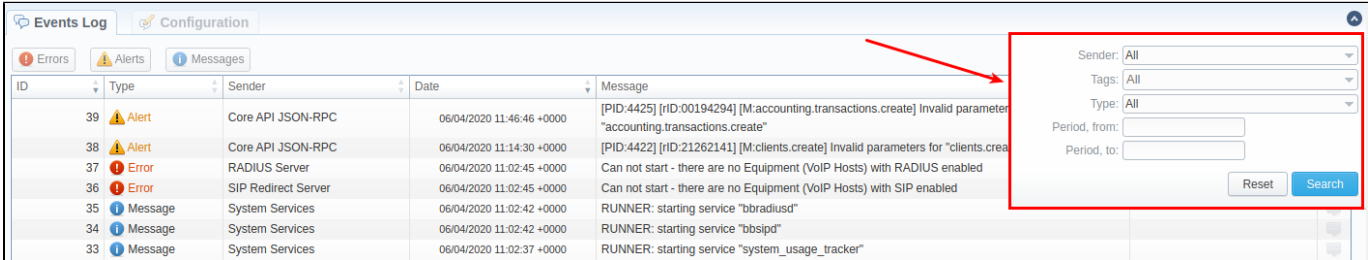
Button/Icon	Description
	Allows to filter the list of events by <b>errors</b>
	Allows to filter the list of events by <b>alerts</b>
	Allows to filter the list of events by <b>messages</b>

	Allows to view a <b>detailed description</b> of the event (if possible)
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## Advanced Search

You can find the build-in **Advanced Search** drop-down menu that provides an easy way of navigation between multiple columns of the table. Click a blue downward arrow icon to open a menu with the following fields:

Screenshot: Advanced Search drop-down menu



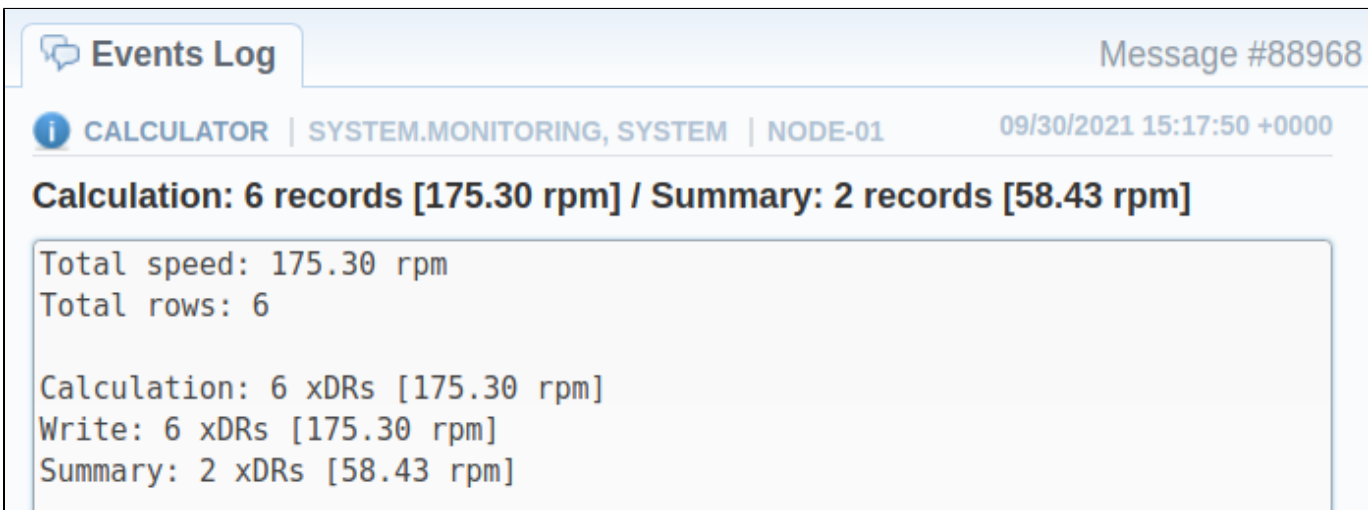
Field	Description
<b>Sender</b>	Select a respective <b>sender</b> from the given list. By default, the field value is <b>All</b> .
<b>Tags</b>	Select <b>one or multiple tags</b> from the provided list. By default, the field value is <b>All</b> .
<b>Type</b>	Specify a type of event: <b>error</b> , <b>alert</b> , or <b>message</b> . By default, the field value is <b>All</b> .
<b>Period, from:</b>	When search settings are applied, only events whose <b>Date</b> value <b>Period, from</b> value will be displayed
<b>Period, to:</b>	When search settings are applied, only events whose <b>Date</b> value <b>Period, to</b> value will be displayed

When all search criteria have been set, click the **Search** button to apply them. Click **Reset** to cancel the applied search.

## Detailed Description of the Event

You can view detailed descriptions of some events by clicking the icon opposite a respective event on the right. A pop-up window consists of **Title** and **Event Description** (see screenshot below):

Screenshot: Detailed description of the event



## Configuration Tab

In the **Configuration** tab, you can create rules for email notifications about respective events within the system. The main window represents a set of rules, presented in the form of a table (screenshot below):

Screenshot: Configuration tab

Events Log
**Configuration**

Add Rule
Rows 1 – 1 of 1
20
Page 1 of 1

ID	Title	E-mails	Filters	Group Limit	
1	SIP/RADIUS ALERT	test@jerasoft.net	Services: RADIUS Server, SIP Redirect Server Types: Errors, Alerts	0	

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Column Name	Description
ID	Identification number of the rule
Title	Name of the rule
Emails	List of recipients' email addresses
Filters	List of services and types of events added to the respective rule
Group Limit	Number of messages allowed to be sent separately

Functional **buttons/icons**, presented in the tab, are as follows:

Button/Icon	Description
	Allows to add a new <b>rule</b> for <b>email notifications</b>
	Allows to <b>delete</b> an email notification <b>rule</b>

## Adding a new rule

For adding a new rule to the system, you need to click the **Add Rule** button. Following this, **Event Log** pop-up window will show up with respective settings (shown below):

Screenshot: Event Log pop-up window

Events Log

Title:
Emails:
Group Limit: 0 events
Details Limit: 300 characters

**FILTERS**
Services: All
Types: All
Tags: All
RegExp Match:

OK
Cancel
Apply

Information Block	Field	Description
General		General information block consists of the following fields:

	<b>Title</b>	Name of the <b>rule</b> that will be put into the subject of the message
	<b>Emails</b>	Email <b>addresses</b> of the <b>recipient</b>
	<b>Group Limit</b>	The <b>boundary</b> to control the <b>number of messages</b> to be sent. If there are <b>more messages</b> available for delivery within one monitoring cycle <b>than the specified value</b> , they will be sent as a <b>single email</b> (set <b>0</b> to get <b>all</b> messages <b>separately</b> , or an <b>ultimate high</b> value to receive <b>grouped</b> messages).
	<b>Details Limit</b>	Data will be <b>limited</b> and cut to a specified <b>number of characters</b> in the grouped messages. By default, the field value is set to <b>300</b> .
<b>Filters</b>	Fill in this information block to make your rule <b>more detailed</b> and <b>precise</b> .	
	<b>Services</b>	<p>Specify billing services that will be included in this event rules.</p> <p><b>List of available services:</b></p> <ul style="list-style-type: none"> <li>• Backup Manager;</li> <li>• Balances Manager;</li> <li>• Cache Manager;</li> <li>• Calculator;</li> <li>• Calling Cards Manager;</li> <li>• Cleaner;</li> <li>• Email Rates Manager;</li> <li>• Dynamic Routing Manager;</li> <li>• Events Manager;</li> <li>• Factors Watcher;</li> <li>• Files Collector;</li> <li>• Files Downloader;</li> <li>• Files Upload Service;</li> <li>• Import Manager;</li> <li>• Invoicing Manager;</li> <li>• JSON-RPC Core API;</li> <li>• Log Rotator;</li> <li>• Jurisdiction Manager;</li> <li>• Mail Manager;</li> <li>• Notificator;</li> <li>• Packages Manager;</li> <li>• Payment Gateways;</li> <li>• Provisioning Manager;</li> <li>• RADIUS Server;</li> <li>• Rates Generator;</li> <li>• Rates Notificator;</li> <li>• Orig-Term Report Generator;</li> <li>• Reports Watcher;</li> <li>• SIP Redirect Server;</li> <li>• Statistics Manager;</li> <li>• Statistic meta info manager;</li> <li>• Swap Deals Manager;</li> <li>• System Services;</li> <li>• Traffic Rules Manager;</li> <li>• Web.</li> </ul>
	<b>Types</b>	Specify the category of events for the rule: <b>errors, messages, alerts</b>
	<b>Tags</b>	<p>Set <b>labels</b> that will be applied to filter the rule.</p> <p>List of the <b>available tags</b>:</p> <ul style="list-style-type: none"> <li>• <b>aaa</b> - includes all accounting tags: aaa.fraud; aaa.ident; aaa.ident.client; aaa.ident.rate; aaa.ident.service; aaa.routing; aaa.traffic_processing;</li> <li>• <b>api</b> - includes all API tags: api.core; api.core.jsonrpcd; api.management; api.provisioning;</li> <li>• <b>coreapi</b>;</li> <li>• <b>dids</b>;</li> <li>• <b>factors watcher</b>;</li> <li>• <b>packages</b> - includes all package tags: packages.nofunds;</li> <li>• <b>system</b> - includes all system tags: system.cluster; system.config; system.database; system.license; system.mail; system.monitoring; system.security; system.storage;</li> <li>• <b>transactions</b> - includes all transactions tags: transactions.charge;</li> </ul>

<b><i>RegEx p Match</i></b>	<b>Regular Expression Match</b> option to filter rules. Use <b>POSIX standart</b> while specifying regular expressions
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After clicking **OK**, a new rule will be added to the general list of the **Configuration** tab.