



Events



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<https://pandorafms.com/manual/!current/>
Permanent link:
https://pandorafms.com/manual/!current/en/documentation/pandorafms/management_and_operation/02_events
24/06/10 14:36





Events

Introduction

Pandora FMS event system allows to see a real time register of all the events that take place in your monitored systems. The information displayed ranges from any module status change, alerts triggered or retrieved, to system restarts or custom events. By default, in the event view, a *screenshot* of what is happening at that time will be shown.

Events are the register and a fundamental part of a monitoring system.

Events are classified by their severity:

- 0 Maintenance (White/Grey).
- 1 Informative (Blue).
- 2 Normal (Green).
- 3 Warning (Yellow).
- 4 Critical (Red).
- 5 Minor (Pink).
- 6 Major (Brown).

The following actions can be performed in regard to an event:

- Change its status (validated or in progress).
- Change the owner.
- Delete.
- Show additional information.
- Add a comment.
- Apply custom responses.

General information

Events are managed in Operations → Events → View Events.

The event viewer shows a summary of each event and sometimes other associated data, such as the agent module that generated the event, the group, module-related tags, etc. You may also sort events by identifier, status, name, among other fields.

By clicking on the zoom icon, corresponding to each item, you will get more details.

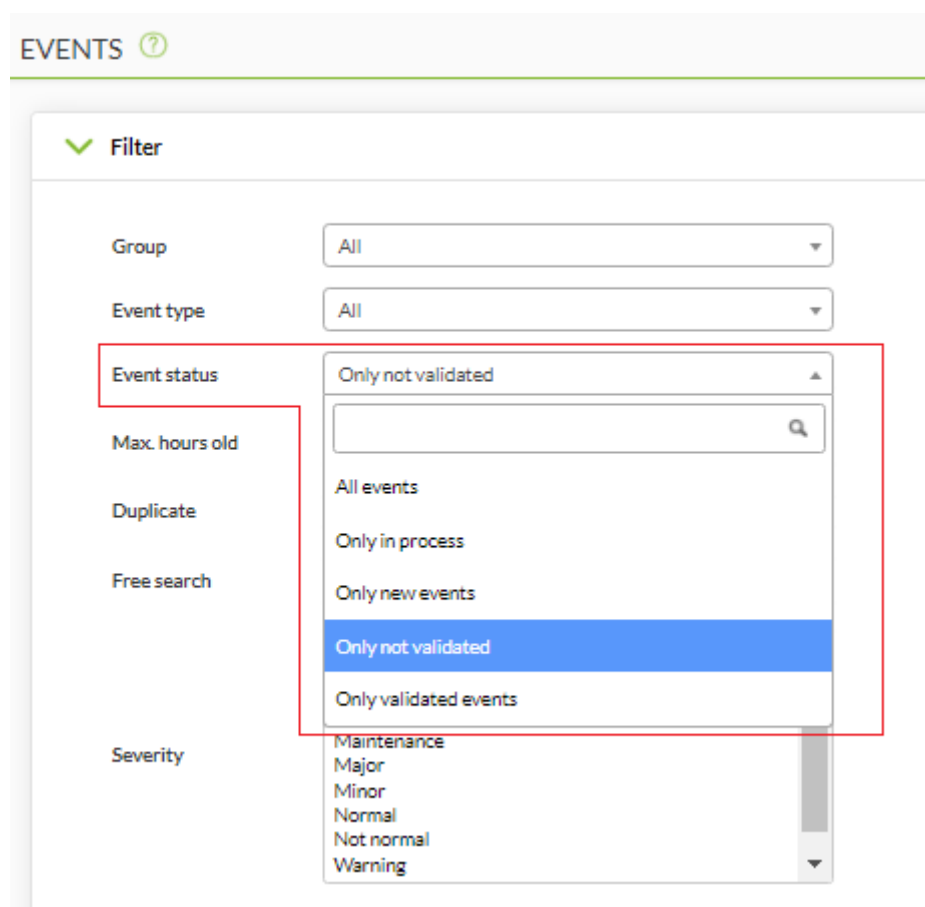
Users will be able to see only the groups to which they belongs, unless they explicitly belong to group **ALL**.

The events presented are those of the last eight hours and *non-validated ones by default (and can also be customized)*, in addition to being grouped to avoid redundancy. You may save searches as filters or apply *a previously created filter*.

Operating with events

Event validation and status. Autovalidation

An event may be in four different status:



The screenshot shows the 'EVENTS' filter interface. The 'Filter' section is expanded, showing several filter options. The 'Event status' dropdown menu is open, displaying the following options: 'Only not validated' (selected), 'All events', 'Only in process', 'Only new events', 'Only validated events', 'Maintenance', 'Major', 'Minor', 'Normal', 'Not normal', and 'Warning'. A red box highlights the 'Event status' dropdown and its options.

- In process.
- New.
- Not validated.
- Validated.

Autovalidation

When events take place due to module status changes, there will usually be two events: the first event is the change from normal to “faulty” state, and the second one is the event going back to normal once the problem is solved. In these cases, events going into a faulty state (critical or warning) are automatically validated when they go back to normal. This is what it is called event autovalidation and it is an extremely useful feature.

Manual validation

When working manually, an event can be validated. That will make the system save the date and the user who validated the event. It is also possible to leave a comment, by clicking on the validate button, the screen is refreshed and the validated event “disappears”.

Note that, in addition, there are more options such as executing customized responses such as pinging the host, assigning a user, among others.

Individual or batch processes

You may validate, check as “in process” or delete events individually by clicking on the corresponding icons, or mass apply them to a selection.

Regarding custom responses, the maximum number of events to which the operation applies is limited to ten.

Event filtering

Important aspects of this feature:

- Filters can be saved to be used again later on.
- The limit for old events (Max. hours old) can be customized.
- Pandora FMS, by default, groups repeated events (Duplicate → Group events), however this preference can be changed:
 - All events: Display all events individually.
 - Group agents: Group events by agent.
 - Group events: The event name, agent ID and module ID are used to identify duplicates.
 - Group Extra IDs: Events will be grouped by Extra ID only, sorted by Timestamp.
- You may filter by specific group. If you use the Group recursion option, it will also search in the subgroups of that group. Likewise, if you select Search in secondary groups, the events of agents with assigned secondary groups will be included. *These last two options may imply some work impact on PFMS server.*

Advanced options

- You may search for events that took place within a certain period of time using the date fields From (date) and To (date).
- In the Free search field you may use a regular expression (for example, to search for Connections and Network enter (Connections|Network)). The search is performed by agent name, event name, extra ID, source, custom data and comments.
- You may filter by custom fields using the Custom data filter fields, either by filtering the field name (Filter custom data by field name) or by custom field content (Filter custom data by field value). These fields will be displayed as columns in the event view.

User ack. Any

Alert events All

From (date:time)

To (date:time)

Custom data filter Filter custom data by field name

Custom data search

Events with the following tags

Favorite filters

NG 770 version or later

The event filters that you consider most frequently used can be added to the Events section in the Favorite menu (Operation menu). This is done by clicking on the star icon that will appear when loading a saved filter (Current filter). Clicking it again allows you to uncheck the icon and remove it from the favorites system.

PANDORAFMS

Pandora FMS
the Flexible Monitoring System

Operation Management

Monitoring

Topology maps

Reporting

Events

★ Favorite

Events

Workstations event...

Workspace

Tools

Events

Events list

Filters

Current filter

Workstations events

Event name

Agent [KEPLER] created by pandorafms

Module 'Service Netlogon - Status' is going to CRITICAL

Showing 1 to 2 of 2 entries

Deleting an Event

Events can be deleted individually (manually) and/or automatically: in the menu Management → Setup → Setup → Setup → Max. days before events are deleted you may specify, in days, the period to be kept.

Activating Enable event history in Management → Setup → Setup → Historical database, you have the option to keep them for the purpose of creating special reports.

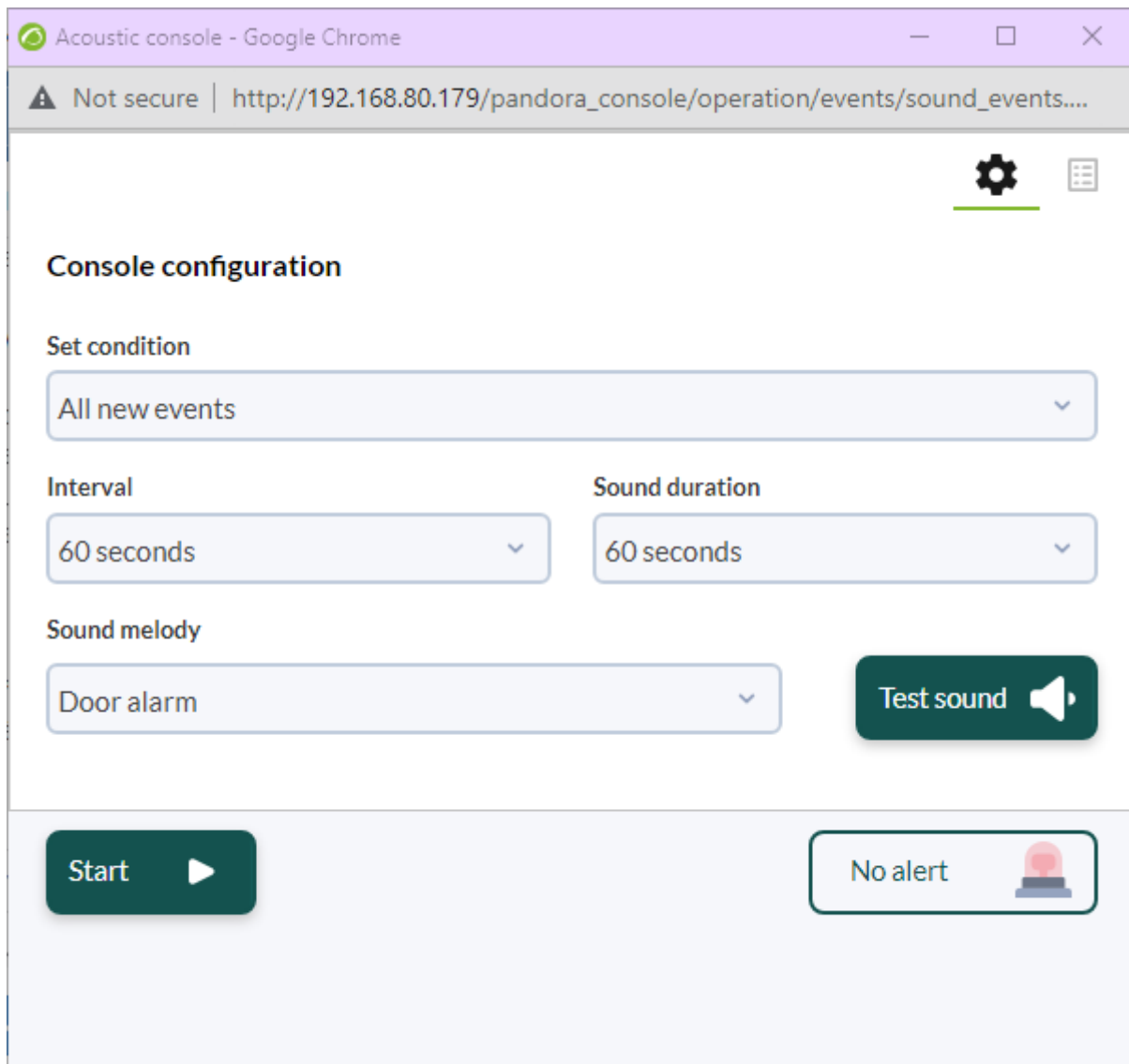
RSS Events

- To access event RSS feed, configure the IP addresses that allow access in the field IP list with API access within Setup.
- You will also need an RSS reader such as Inoreader, Selfoss or your favorite RSS reader.

To see events in a news channel or RSS go to Operation → Events → RSS and subscribe from the news reader of your choice.

Event sound console

It allows to spread the sound alerts when an event takes place. The tune will be played until you pause the sound event or click OK.



The list of sound events that generate a sound alert by default (and may be customized) is:

- A triggered alert.
- A module going into warning state.
- A module going into critical state.
- A module going into unknown state.

Go to Operation → Events → Acoustic console. This action opens a popup window control for all sound events. You must configure your web browser to allow pop-up windows to open.

Minimizing the Acoustic Console window will cause it not to work as expected.

Sound events are explored every 10 seconds asynchronously, when an event takes place, the window will start blinking in red or vibrating and in addition, depending on the configuration of your browser or operative system, the window will keep the focus and stay over the rest of the open windows.

You will only get sound alerts for events that start right from and while that window is open, that match selected items and that have an alarm set.

Advanced Configuration

To add new tunes, copy said files in WAV format, to the directory:

```
/var/www/pandora_console/include/sounds/
```

Exporting Events to a CSV

In order to export the events to a CSV file, click on Operation → Events → View events → Export to CSV File.

Event alerts. Event correlation

For Pandora FMS release 741 onwards, there is [event related alert management](#), a specific wiki section.

Events from the Command Line

Event creation and validation

[Pandora FMS external API](#) is used making remote calls (through HTTPS) on the `/include/api.php` file. This is the method defined in Pandora FMS to integrate third party applications. It basically consists of a call with the parameters formatted to receive a value or a list of values that this application will use to carry out operations.

By using the WEB API, you may interact with Pandora FMS from any remote system, even if you do not have connection to the database with an installed Software agent.

The three main points to activate Pandora FMS API:

1. Enable the API access for the IP from which the command will be executed or use '*' for all IPs.
2. Set an API password
3. Use a user/password to login, or define a specific user to access it through API.

The password devoted to creating or validating events through Pandora FMS API may be copied from:

```
/usr/share/pandora_server/util/pandora_revent.pl
```

When executed in the client device, without parameters, you may see its full syntax.

Options to validate an event:

```
./pandora_revent.pl -p <path_to_consoleAPI> -u <credentials> -validate_event  
<options> -id <id_event>
```

For instruction unknown, `critical` or `warning` fields to appear in the details of the generated event, said event must be `going_unknown`, `going_down_critical`, or else `going_down_warning`, accordingly.

Sometimes, maybe for security reasons, it is necessary to count only with the event creation option, so `pandora_revent_create.pl` can be copied to the client device. It is located at:

```
/usr/share/pandora_server/util/pandora_revent_create.pl
```

This tool has similar features to those of `pandora_revent.pl`.

Custom fields within events

Events with custom fields may be generated by the [Pandora FMS CLI](#), e.g. An event generated by the following command:

```
perl pandora_manage.pl \  
    /etc/pandora/pandora_server.conf \  
    --create_event 'Custom event' system Firewalls \  
    'localhost' 'module' 0 4 '' 'admin' '' '' '' '' \  
    '{"Location": "Office", "Priority": 42}'
```

Event setup

Through Management → Configuration → Events it is possible to configure:

- Personalized columns.
- Answers to events.
- Filter configuration.

Custom event view

It is possible to customize the fields that the Event View shows by default from the Events → View events, click on Manage events → Custom columns section, where the fields to be shown can be chosen.

The screenshot displays the Pandora FMS interface for configuring custom event fields. On the left, a navigation sidebar is shown with the 'Management' tab selected. Under the 'Events' section, 'Custom columns' is highlighted with a red box. The main content area is titled 'Configuration / Events Custom columns' and features a 'SHOW EVENT FIELDS' section. This section is divided into two columns: 'Fields available' and 'Fields selected'. The 'Fields available' column lists 'Event Id', 'Agent ID', 'Agent IP', and 'User'. The 'Fields selected' column lists 'Severity mini', 'Event name', 'Status', and 'Agent name'. An 'Update' button with a checkmark icon is located at the bottom right of the configuration area.

The default fields are five, however there are more fields to add:

- Event ID.
- Agent name.
- User.
- Group.
- Event type.
- Module name.
- Alert.
- Severity.
- Comment.
- Tags.

- Source.
- Extra ID.
- Owner.

- ACK Timestamp.
- Instructions.
- Server name.
- Data.
- Module status.
- Module custom ID.

Creating Event Filters

Management → Configuration → Events → Events → Events filters menu.

Allows you to create, delete and edit the filters applied to the event view. After saving you can go to View events and load the appropriate filter.

Event Responses

Introduction

An event response is a customized action that can be executed on an event, such as creating a *ticket* in [Pandora ITSM](#) with the relevant event information. You may get more information about Integria IMS in the [Pandora FMS documentation](#)].

Enter a representative name, description, the parameters to be used separated by commas, the command to be used (the latter allow the use of macros), the type and the server that will execute the command. In Parameters you can put as many as you need, separated by commas. When the response is made, a dialog box will appear to fill in each one of them and add it to the event.

Event Responses macros

`_agent_address_`

Agent address.

`_agent_alias_`

Agent alias.

`_agent_id_`

Agent ID.

_agent_name_

Agent name.

_alert_id_

Event related alert ID.

_command_timeout_

Command response time (seconds).

_current_user_

Id of the user who executes the response.

_current_username_

Full name of the user executing the response.

_customdata_json_

Pulls all information from custom data in JSON format.

_customdata_text_

Pulls all information from custom data in text mode (with carrier return).

_customdata_X_

Pulls a particular field from custom data, replacing the X with the field's name.

_event_date_

Date on which the event took place.

_event_extra_id_

Extra event ID.

_event_id_

Event ID.

_event_instruction_

Event instructions.

_event_severity_id_

Event severity ID.

_event_severity_text_

Event severity (translated by Pandora FMS console).

_event_source_

Event source.

_event_status_

Event status (new, validated or event in process).

_event_tags_

Event tags separated by commas.

_event_text_

Full text of the event.

_event_type_

Event type (System, going into Unknown Status...).

_event_utimestamp_

Date on which the event occurred in utimestamp format.

_group_id_

Group ID.

_group_name_

Group name in database.

_group_contact_

Contact information for a group of agents.

_module_address_

Event associated module address.

_module_id_

Event associated module ID.

_module_name_

Event associated module name.

_node_id_

For Command Center (Metaconsole) and Node, returns the node identifier.

_node_name_

For Metaconsole and Node, returns the node name.

_owner_user_

Event owner user.

_owner_username_

Full name of the user who owns the event.

_user_id_

User ID.

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