

opEvents Release Notes



Looking for opEvents-3.x and opEvents-4.x [Release Notes?](#)

Product Compatibility

Refer to [product compatibility](#) to determine supported Operating Systems and Database Versions.

Download opEvents here - <https://opmantek.com/network-management-download/opevents-download/>

- [opEvents 2.7.0](#)
- [opEvents 2.6.5](#)
- [opEvents 2.6.4](#)
- [opEvents 2.6.3](#)
- [opEvents 2.6.2](#)
- [opEvents 2.6.1](#)
- [opEvents 2.6.0](#)
- [opEvents 2.5.0](#)
- [opEvents 2.4.5](#)
- [opEvents 2.4.4](#)
- [opEvents 2.4.3](#)
- [opEvents 2.4.2](#)
- [opEvents 2.4.0](#)
- [opEvents 2.2.1](#)
- [opEvents 2.2.0](#)
- [opEvents 2.0.6](#)
- [opEvents 2.0.5](#)
- [opEvents 2.0.4](#)
- [opEvents 2.0.3](#)
- [opEvents 2.0.2](#)
- [opEvents 2.0.0](#)
- [opEvents 1.2.6](#)
- [opEvents 1.2.4](#)
- [opEvents 1.2.3](#)
- [opEvents 1.2.2](#)
- [opEvents 1.2.1](#)
- [opEvents 1.2.0](#)
- [opEvents 1.1.2](#)
- [opEvents 1.1.1](#)
- [opEvents 1.1.0](#)
- [opEvents 1.0.6](#)
- [opEvents 1.0.5](#)
- [opEvents 1.0.4](#)
- [Changes between releases 1.0.0 and 1.0.3:](#)

This is a brief overview of the major changes between opEvents releases.

opEvents 2.7.0

RELEASED

13 Dec 2021

Improvements

- Added secrets randomise and secure cookies. For more information see [Security Configurations](#).
- Updated jQuery dependencies.

opEvents 2.6.5

RELEASED

28 July 2021

Bug Fixes

- Fixed issue with Radius Authentication.

opEvents 2.6.4

RELEASED

14 April 2021

Bug Fixes

- Fixed issue in opEvents where a large amount MongoDB connections were created and retained.

opEvents 2.6.3

Released 30th March 2021

This version provides new [authentication configurations](#):

- Limit the number of sessions per user
- Lock users that have not logged in in a specified period of time

opEvents 2.6.2

Released 13th January 2021

Fixed bug with programmable action buttons where the status of the currently executed action would return the completed status of the job even if the action was still queued or being processed. This only affected the visual indicator of the running action and refresh of the page, the action would have still be executed.

opEvents 2.6.1

Released 22nd December 2020

New feature which shows [Programmable Action Buttons](#) on events which operators to execute EventsActions scripts from the event context screen.

New feature to force an event status change when adding a comment. The feature needs to be on using the following configuration items:

- 'opevents_event_status_enabled' => 'true'
- 'opevents_event_status_validation_on_comment' => ['non_empty_string', 'different_status'],

Edit Comments

nmis at 2020-12-22T18:06:37 ☐ Delete

Located at 3.00 pm

Comment Status: **Detected**

New Comment

Enter your new comment for this event.

Event Status

Detected

Cancel Update

opEvents 2.6.0

Upgrade Notes

⚠ This release of opEvents 2.6 will work on Opmantek's latest and fastest platform, however, the currently installed products are incompatible with this upgrade.

To find out more about this upgrade please read: [Upgrading Opmantek Applications](#)

opEvents 2.5.0

Released 15 July 2020

This is a maintenance release.

⚠ This release requires updated licenses, please contact [Opmantek Support](#) to organise new licenses.

opEvents 2.4.5

published 23 January 2020

Feature

- This release was primarily focused around releasing the new Opmantek Installer with improved systemd support.

opEvents 2.4.4

published 11 April 2019

Bug Fixes

- Fixed an issue where events being enriched by node proprieties clashing with the event authority key 'location',
 - opevents_event_copy_node_properties is now in a sub document on the event using the key nodeinfo
 - These copied properties be accessed like: nodeinfo.location
- Fixed an issue where setting the time period using the filter would not function

Feature

- opevents_gui_event_context_summary_list now supports deeply nested keys
 - example: nodeinfo.location

opEvents 2.4.3

published 3 April 2019

Features

- Event Context and Node Context views have improved Event Actions and Node Event panels that auto refresh.
- Event Actions editor saves a draft on your browser's local storage when you navigate away without saving. On return you can load the draft copy or discard it.
 - EventActions.nmis is not affected until you Save.
- Table Schema Updates
 - Acknowledged By now shows if the event was system acknowledged in the table
 - Events group added
 - Location group added
- [Events now have an editable event status.](#)
 - This allows opEvents to be used as a technical service desk
 - Enable the feature in opevents_event_status_enabled => 'true' in opCommon.nmis
 - Default status value on event creation can be set by opevents_event_status_default_value opCommon.nmis
 - Default Undef
 - Values which the operator can select are defined in opevents_event_status_values in opCommon.nmis
 - This is an array of hashes with the key being 'status'
 - If enabled or the event has the status property, a select box will be rendered in the event context panel
 - Event Action is generated when the event status is changed
- Events on creation can be enriched by node data. any value on the node can be utilised
 - Which properties to copy are defined in opevents_event_copy_node_properties opCommon.nmis
 - Array of node keys
 - Default is group and location
- Table schema now supports the property extra_css to define css classes for grid cells
- Event Context, Context panel can now display any key value from the event
 - Use opevents_gui_event_context_summary_list in opCommon.nmis to define which keys from the event you wish to display

Bug Fixes

- Fixed GUI performance issues affecting installs with a large amount of events

opEvents 2.4.2

This major release of opEvents introduces several new features and bugfixes, published 1 November 2018

⚠ opEvents 2.4.2 minimum MongoDB version is 3.2

- New in-app editor for Event Actions and policies, this allows quick editing of you EventActions.nmis config, this can be found under "System" > "Edit Event Actions"
 - Syntax Highlighting for Event Actions
 - Validate your changes at any stage
 - Console output for event actions validation
 - Embedded documentation
 - Each save generates a new backup of your last revision these are saved in <omk_dir>/backups/EventActions.nmis.*
- Node context links are now viewable in opEvents. Docs for how they are used inside nodes at [NMIS Linking Nodes to other systems](#).
 - Node refresh from NMIS will be required to import these properties if changed on the node.
 - These show in the navigation bar for:
 - Node & Event Context
 - These show as links inside the data tables for:
 - Dashboard Screen
 - Events List & Current Events
- More robust handling of system overload situations
 - The main dashboard screen now warns if the event or action queues grow too large.
 - Any processing of events that have been stuck in the incoming queue beyond opevents_max_event_age (default: 2 hours) is now aborted and an appropriate entry is written to the raw log.
 - A new diagnostic API endpoint at omk/opEvents/health.json was added, which reports the opEvents daemon states and some metrics on queued overdue events and actions.
- Resource safety limits for request periods
 - opEvents now by default sets the new configuration option opevents_max_period_value to 30 days, which ensures that no periods greater than that are selectable from the GUI. otherwise, selecting overlong request periods may cause memory exhaustion for both MongoDB daemon as well as the opmantek webserver workers.
- opEvents now installs a purging policy for old data by default (unless the admin answers 'no' when the installer prompts)
- The events dashboard pages now select a default display interval that extends slightly into the future (instead of cutting the interval off before the current time)
- The Opmantek web server now supports resource limits to alleviate out-of-memory situations
 - The two new configuration options omkd_max_requests and omkd_max_memory can be used to ensure that a web server worker process terminates after handling N requests (omkd_max_requests) or if it grows beyond M megabytes of resident memory (omkd_max_memory)
- New reorder protection feature for the handling of forwarded events this new feature (link to [Deduplication and storm control in opEvents](#)) was added to make the processing of forwarded events on a central server more robust
- Automatically refreshing pages are now more resilient in how they react to unreliable client clocks or browser timer events.
- Various bug fixes and robustness and efficiency improvements in both GUI and backend.
- Planned outages as reported by NMIS are now translated into stateful events by opEvents.

opEvents 2.4.1

This maintenance release of opEvents was published on 2 Nov 2017.

This version fixes a number of scalability and robustness bugs, and improves some GUI screens. No new features were introduced.

opEvents 2.4.0

This major release of opEvents was released on 27 Jun 2017.

Please note that the licensing system has been updated, and existing licenses will *not* work for opEvents 2.4.0: You will have to obtain an updated license for this version of opEvents.

You can check your licenses by visiting the [My Licenses](#) page; If unsure about your options, please email contact@opmantek.com.

GUI and CLI

- opEvents has been completely reskinned and all pages have been reworked for easier navigation and greater consistency, e.g. to offer similar types of quick-search and display options.
This change also offers certain new options for customising pages.
- The welcome page at /omk/ now shows which of your installed applications have newer versions available.
- It is now possible to acknowledge events in bulk from the Current Events page.
- Editing nodes from the GUI is now more context-sensitive; when done you're transported to the page that you came from.
- GUI pages that support regular expressions for searching now offer both case-sensitive and case-insensitive regular expressions; Please note that case-insensitive regular expression searches are substantially slower and resource-intensive.
- The opEvents CLI now allows searching for stateful elements by time of last state change.
- The event status history and event actions taken are now more consistent and easier to see on an event's details page.

- The event context page now shows the linking between related events in greater detail, e.g. stateful opposite events as well as synthetic and suppressed correlated events.
- opEvents now supports [Delegated Authentication](#).
- The Help menu now provides access to MongoDB status information.
- opEvents' CLI tool was streamlined for faster operation if it is used as an event forwarder with `act=create_event`.

Processing Backend

- The opEvents processing pipeline has been updated to perform more actions in parallel for improved performance. All input parsing and event (action) processing is now handled in separate independent processes, and all log entries are suitably prefixed to identify the active party. New config options `opeventsd_queue_cycle` and `opeventsd_file_cycle` control how often these processes check for pending work.
- Inbound log processing was made more robust wrt. file rotation and now also handles logfiles that are growing faster than opEvents can consume data; suitable warning log messages are created if such a situation is detected.
- All automatic opEvents daemon restarting is now subject to exponential backoff to limit the system load. In this version it is also possible to configure the opEvents daemon to *not* restart when configuration files are changed; see config option `opeventsd_restart_on_config_chang` in `opCommon.nmis` for details.
- The log verbosity of opEvents' daemon processes can now be changed dynamically without restarting: If you send any of the daemons the signal `USR1`, then that daemon will increase its logging verbosity by one step. Signal `USR2` decreases the verbosity. Dynamically set verbosity levels do not persist across daemon restarts.
- opEvents can now optionally keep consumed JSON event inputs in an archive directory, instead of deleting them after consumption. See the config option `opevents_move_json_logs` in `opCommon.nmis` for details. The processing order of JSON event inputs was also adjusted to simplify debugging.
- Event actions of type `script` whose handler programs crash are now retried a limited number of times only, and `opevents_max_action_queue_age` is checked for such retries.
- Flap detection is now more consistent wrt. the delayed action time window, and a suitable warning is logged if an event is too old for the flap detection logic to perform reliably.
- opEvents now offers configurable Flap Event naming; see config option `opevents_flap_name` in `opCommon.nmis` for details.
- It is now possible (but not recommended) to disable all DNS use in opEvents.
- If desired, opEvents can be configured to not product Raw Log entries for blacklisted inputs. The default choice is to raw-log such inputs, but see config option `raw_log_black_list` in `opCommon.nmis` for other options. Raw Log data in general was made more consistent and complete, regardless of type of event input.

Other Changes

- The opEvents installer now supports better [control in non-interactive mode](#).
- The parsing of event action policies was made more robust so that verbatim text like `X.Y` is not inadvertently expanded and lost. It's recommended nevertheless that you escape such problematic tokens with a backslash, e.g. `X\ .Y`.
- numerous smaller improvements and bug fixes.

opEvents 2.2.1

This maintenance release was published on 30 Jan 2017.

- If MongoDB is not present, the installer now offers to install MongoDB Version 3.2.
- opEvents now offers a new database status and statistics page, accessible to admin-level logins (only) from the Help menu.
- The display of time and dates when a time zone is configured is now more consistent across all of opEvents's screens.
- The Event Details page now shows the event time in both raw and human-friendly format.
- opEvents can now compensate better for input data with wrong timezone or badly desynchronized clock. If you set the config option `opevents_max_time_delta` to a positive number `N`, then any event input whose time is off by more than `N` seconds is rewritten with the current time. Default value is 0, ie. disabled. You cannot set this option to a higher value than `opevents_max_event_age` (which is the upper limit for old events that opEvents will consume).
- `opeventsd` now handles server overload situations better. The internal queue for event policy actions is now checked for (increasing) size, and a warning log message is created if it should grow above two times the number of parallel processes that `opeventsd` is allowed to create. In addition to that warning, the new config option `opevents_max_action_queue_age` (default: 3600s) controls whether very old stuck action queue entries should be aborted and purged. The related new option `opevents_reschedule_action_age` (default: 180s) controls how long to wait until rescheduling an action that was started but whose handler process died unexpectedly or timed out.
- opEvents policy actions of type `script` are now limited in terms of process runtime. The config option `opevents_action_max_runtime` (default: 30s) defines how long an external action program is allowed to run. Programs running over time are terminated, and suitable error messages are logged.
- Improved error handling and reporting for creating events remotely with `create_remote_event.pl` or `opevents-cli.pl`
- Automatic generation of missing nodes is now configurable and handled more consistently. If the config option `opevents_auto_create_nodes` is set to 'true' (which is the default), then opEvents will create a full node record when it receives an event input for a nonexistent node. If the option is set to 'false', then the event is skipped altogether, but a record in the raw log will indicate that and why the event was discarded.
- Renaming and amending of auto-generated nodes now works correctly.
- The [event correlation engine](#) now honors the combination of the options `inhibit` and `autoacknowledge` more completely.
- The generic extensible parser `cisco_altername` has been renamed to `cisco_compatible`, and is now the default parser for Cisco-style syslog logfiles for new installations. For existing installations it is recommended that you

1. merge or replace the parser definition file `conf/EventParserRules.nmis` with the new defaults from `install/`,

- 2. and that you change the config entry `opevents_logs` to switch from the deprecated `parser cisco_syslog` to the more flexible parser `cisco_compatible`.
- plus a number of minor bug fixes.

opEvents 2.2.0

This major release of opEvents was published on 13 Dec 2016.

- The generic extensible parser now supports [user-defined plugins](#), and offers new directives for resolving arbitrary inputs using the DNS (forward and backward)
- The correlation system now provides much more fine-grained control over the [contents of a synthetic event](#), as well as optional post-match inhibit times.
- opEvents now supports [stateful synthetic events](#).
- Event Emails now provide better formatting for event script actions and status history.
- Various GUI simplifications and improvements
 - opEvents now offers three different default periods for the GUI
Config option `opevents_gui_dashboard_default_period` is for the main dashboard page, option `opevents_gui_console_default_period` governs the 'Recent Events' console, and all other pages are controlled by `opevents_gui_default_period`. The default for all three is 2 hours.
Furthermore the default choices for the period dropdown was expanded with some longer periods.
 - The [event.host property](#) that confused people repeatedly is now only displayed on an event's details page.
 - The Node Administration page now shows what applications a node is enabled for, and the node name now links to the edit dialog.
 - Some of the more interactive pages now support a quick search for the most common properties, and the display of any active sorting was improved.
 - It is now possible to omit the Recent Events list on the Current Events page: simply set the values of config item `opevents_gui_console_pagination` to <number of current events to show> and -1 (default is 10 and 10, respectively).
 - This can be used to hide Recent Events in the active_events screen which is titled Current Events.
 - The Raw Logs page now shows much more detailed information about the disposal of input data; blacklisted, deduplicated and other ignored and discarded inputs are now shown with a brief explanation of the reason, and actual events are linked for easier access.
- opEvents now ships with its own CLI tool, and using the `opeventsd.pl` or `opeventsd.exe` for operations like import, report creation etc. is now deprecated (and results in warning messages).
The tool `opevents-cli.pl` also incorporates the functionality of `create_remote_event` (which is still shipped separately).
- Element states are now better controllable and adjustable.
If any nodes managed by opEvents should suffer desynchronised element states or carry orphaned/old undesirable states, this is now simple to resolve.
In the node context GUI each element state can not be toggled or deleted outright if you are an admin user. On the command line, the tool `opevents-cli.pl` can list, show, create, remove and set any element state as necessary.
- opEvents now provides a [safer, faster and more flexible interface](#) to external processes for script policy actions.
- opEvents now supports a "macro" capability for accessing certain configuration values from an [action policy IF condition](#), action policy script arguments, [external enrichment](#) arguments, or [email templates](#). See the "macro" section in `opCommon.nmis`, and the discussion of `macro.some name` on the linked documentation pages.
- The parser rules were all updated for greater robustness, and the default parser for trap logs is now the generic extensible `traplog` parser. The example generic extensible parser rules were updated to support RFC3389/ISO8601 high-precision timestamps.
- Installer improvements for greater security
- opEvents now maintains both event priority and NMIS-compatible 'level' properties for an event. All internal logic continues to use 'priority' exclusively.
- opEvents now handles 'priority update' events from NMIS more user-friendly
In the past, stateful events from NMIS which didn't convey a new state were summarily deduplicated. In this version, stateful events that carry a different priority (but the same state) are consumed and the original event is updated with the new priority, level and details. In such cases the event's "status history" (visible on the details page) holds a record for each such change.
- opEvents can now save newly imported nodes from NMIS in disabled or enabled state (see the config item `opevents_import_nodes_activated`)
- Sensitive data is no longer imported from NMIS at all (e.g. SNMP communities).
- Imports from NMIS can now be limited to the primary node information (i.e. not importing any of the node's interface IP addresses that NMIS may know).
This is selected using the configuration item `opevents_import_node_interfaces`, which defaults to `true`.
- Imports from NMIS can now optionally include or ignore the node, interface, SNMP and WMI state information.
To include state updates from NMIS, add `setstate=true` `overwrite=true` to the import arguments. State updates are no longer enabled by default, except for newly added nodes.
- The node editing GUI now offers the extra tab "Details", which presents all currently set configuration attributes of that node for diagnostic purposes.
- And of course various bug fixes and smaller improvements

opEvents 2.0.6

This is a maintenance release of opEvents which was published on 10 Aug 2016.

- Two new [access control levels](#) were introduced for opEvents' summary reports.
`module_opevents_view_reports` grants view-only access to summary reports, and is by default associated with privilege levels 0 to 3.
`module_opevents_rw_reports` grants access to summary report creation, and is associated with levels 0 to 2.
- Some CSV Export links were fixed.
- Event emails now contain the event's status history correctly formatted.
- A number of database access inefficiencies were resolved.
- Installer-created backups are now suitably named and timestamped for long-term retention.
- opEvents now offers a new [generic and extensible parser](#) for SNMP trap logs called `nmis_traplog_alterate` (which is not selected by default).

- The parsing of incoming logs has been reworked to ensure that changes made by custom parsing rules do not get overridden later.
- The action for clicking on chart points has been simplified and now displays all events in the time period surrounding the clicked point.
- The default event action policy was improved for greater robustness with regard to regular expression matches.
- plus a number of minor bug fixes.

opEvents 2.0.5

This maintenance release of opEvents was released on 22 Mar 2016.

- The handling of action policy processing was improved for better flexibility and consistency. A new config option `opevents_auto_acknowledge_up` has been added, which controls [automatic acknowledgement of stateful up events](#). It compliments the existing `opevents_auto_acknowledge` option which controls stateful down events.
- The import of node information from NMIS has been improved for better reliability.
- Clicking on points on the dashboard charts is now more robust and brings up the events in the respective time without further filtering.
- The example rule sets for the [generic extensible parser](#) have been extended and now include SNMP trap log processing (log type "nmis_traplog_alternate").
- Some database robustness and speed improvements were made, and the built-in parsers were adjusted for greater flexibility.
- opEvents now support high-precision timestamps for event inputs, if given in RFC3389/ISO8601 format (e.g. "2016-03-21T06:01:02.345+10:00").

opEvents 2.0.4

This version of opEvents was released on 12 Feb 2016. It introduces numerous new capabilities and fixes for various bugs and minor problems. The major changes are new and improved timezone handling, more flexibility for event storm control and correlation and better event action policy processing.

- opEvents' timezone handling was greatly extended. If you set the config option `omkd_display_timezone` to your desired timezone, then all times in the opEvents GUI will be displayed in that timezone *and* including the timezone offset. You can use any timezone definition from the ISO8601 standard and the Olson database, plus "local" (meaning the timezone configured on the server). If this option is not set, the times will be shown in the "local" timezone but *without* zone offset. If explicitly set to "local", the offset suffix is shown.
- opEvents now supports times with timezone specifications in the advanced search dialog (but only in numeric offset format at this time, e.g. "+0500").
- opEvents now records the original event date property (if any) separately from the underlying raw epoch time, and timed records for all of an event's processing stages are recorded as well. All of these are shown on the event details page.
- Escalation policy actions are now shown more prominently in the action log display.
- The handling of special characters in policy action substitutions was improved, and the example EventActions policy file updated. Please note that the EventActions file shipped with version 2.0.3 is insufficiently robust and should be replaced with the new version at your earliest convenience.
- The log handling was improved. Log reopening works more reliably, and opEvents daemon logs are now prefixed with the component role and process id.
- Improved robustness for the [rest-style API for remote event management](#) and the example client application.
- New mechanism for displaying a dynamic service priority text (by event tagging with `servicePriority`).
- Improved robustness and efficiency for MongoDB operations.
- `opnode_admin` is now able to clean up inconsistent semi-existent nodes, including events for that node.
- opEvents can now optionally ignore events for unknown nodes. This is configured using the configuration setting `opevents_auto_create_nodes`, which defaults to true if not present. If true, node records are automatically created if necessary. If set to false, no nodes are automatically created and events for unknown nodes are completely ignored.
- The GUI authentication expiry can now be adjusted with the configuration setting `auth_expiry_seconds`.
- Various opEvents GUI pages were adjusted for improved usability and better access to events' context and details. For example, the event context for stateful events now includes links to any related/opposite event.
- opEvents now performs [policy actions](#) email and script asynchronously and in separate processes. This speeds up event handling substantially because the main event reader process does no longer have to wait until the programs that your action policy triggers actually do finish. (For example, diagnostic programs like traceroute can easily take 30 seconds to complete.) If an event has actions pending processing or completion, a notice info bar is shown on the event context page. The new config option `opeventsd_max_processes` lets you set a limit for parallel worker processes; if that limit is exceeded, further action processing is queued and performed later.
- Storm control and event correlation capabilities were improved. Both [programmable event suppression](#) and [event correlation](#) policies now support the option to automatically acknowledge the suppressed/triggering events. Furthermore they also allow the optional delaying of event policy actions for a configurable extra delayed action period.
- opEvents now supports high-precision timestamps better, and displays both human-friendly and raw time stamps on the event details page.
- Stateless events sourced from NMIS' event log (or poller log) are handled more consistently and robustly, and only events with both state and stateful properties are interpreted as stateful.

opEvents 2.0.3

This maintenance release was released on 7 Dec 2015.

- A new page for showing both Current and Recent Events was introduced. "Current" events are defined as unacknowledged events within a configurable priority range; this is set with `opevents_gui_current_events_`

priorities (default is 3-10).

This Current Events page refreshes automatically. Current events are shown with their escalation status (and sorted by priority), whereas recent events are listed in the order of their creation.

- The default number of events to show in various tables is now configurable:

- a. `opevents_gui_dashboard_pagination` controls the two dashboard pages
- b. `opevents_gui_events_pagination` is for the Event List page,
- c. and `opevents_gui_console_pagination` has two values that control the Current and Recent Event panels, respectively.

- The End Time selector was moved from the menu bar into the Advanced Search Menu.
- The Event List page now automatically refreshes.
- Selecting a different time period no longer disables auto-refreshing, and the default period for the GUI can now be configured with the config setting `opevents_gui_default_period`.

The event context period can be configured independently with `opevents_gui_event_context_period`.

- The Event Context page now shows the escalation status for the event in question.
- The dashboard pages now show the events sorted by time, newest first.
- The logic for automatically acknowledging events was improved.
A stateful up event now auto-acknowledges the corresponding down event **and** itself; in the past only the down event was acknowledged. This feature can be disabled by changing the config setting `opevents_auto_acknowledge`.
- A new action called `acknowledge()` is available for your [Event Action Policy](#).
- Some code inefficiencies were removed, the event colors for priorities 9 and 10 were reworked for better contrast.
- This version of opEvents will work with MongoDB 2.4 but with reduced robustness, and only if you set the new configuration variable `db_use_v26_features` to 0.
The installer now checks your local MongoDB's version and warns about this issue.

opEvents 2.0.2

This maintenance version of opEvents was released on 30 Nov 2015.

- opEvents now offers **free licenses which are not time limited (but limited to 20 nodes)**.
- Please note that for performance reasons opEvents 2.0.2 requires MongoDB version 2.6 or newer.
- opEvents now offers optional [Single-Sign-On across servers](#).
- The generic log parser now supports JunOS logs.
- All irrevocable operations in the GUI now require confirmation.
- Acknowledging events in the GUI is now recorded with username and timestamp, and this information is shown on all relevant pages.
- You can now enrich all or certain classes of events with links to [external Knowledge Base systems](#).
- Synthetic (aka correlated) events are now shown with links to the contributing nodes and events.
- The Events Details page now shows all timestamps in both raw and human-friendly format.
- Various GUI pages were reworked for improved performance, especially for (re)sorting by column.
- The main dashboard and Event List pages now color events contextually, by event severity. If desired, this can be disabled by changing the config setting `opconfig_gui_events_coloring`.
- For network interface events, opEvents now displays the elements with their interface descriptions appended in parenthesis (if the node was refreshed/imported from NMIS with opEvents version 2.0.2).
- Syntax errors and other mistagings in Event Action policies are now detected better and logged in `log/opEvents.log`, and log rotation in `opEventsd` was made more robust.
- The Raw Logs functionality now records deduplicated and suppressed events with more useful details, i.e. the `event_ids` property shows "deduplicated and discarded" instead of being blank.
- `opnode_admin` now supports more user-friendly `act=set` and `act=show` operations, which let you quickly see and modify particular properties of a node; it can now also optionally delete nodes **completely** (*=including their opEvents data*). It also warns about (but still accepts) bad/less-compatible node names.
- The `opeventsd.pl` actions for importing or refreshing nodes from NMIS were reworked for improved clarity and robustness, and the help text was rewritten.
- The installer no longer overwrites user-customized CSS files (i.e. you can adjust `public/omk/css/opEvents_c_custom_packed.css` to your preferences and that will persist across versions).
- ...and, as always, numerous smaller bugs and imperfections were repaired.

opEvents 2.0.0

This new major version was released on 13 Oct 2015.

- opEvents 2.0.0 requires NMIS 8.5.10G or newer for full interoperability. Please check the [Product Compatibility](#) page for details.
- Improved license management user interface
It's now much easier to delete, restore or selectively import your licenses from your Opmantek.com account into opEvents, and reminders about any license conditions being exceeded are presented in a more useful fashion.
- There is a totally new [rest-style API for remote event management](#), complete with an example client and its source.
- [Configurable purging of old data](#) from the opEvents database is now supported.
- opEvents provides a new [facility for summary reports](#) (created both on demand and periodically), complete with automatic email of reports as XLSX spreadsheet and online display.
- Comments with attribution and timestamps can now be added to nodes and events.
Anybody who can view an event can also add a comment for it, but only an administrator can delete comments. (Node comments are all admin-only.)
Comments are shown with the event or node in question, and are tagged with the creation time and originating user. Any URLs in comments are presented as clickable links.
The older facility for importing and editing notes for nodes still remains.
- More user-friendly new landing and overview page at "<http://<yourserver>/omk>".

- Improved interactivity due to better database connection caching
opEvents now keeps its connections to MongoDB open and reuses them as much as possible, which improves interactivity especially if you use a remote MongoDB server.
- New Node Overview screen
There is a new node-centric dashboard or overview screen which shows events and event types for a node over time. Links between this node overview and the node context allow easy navigation.
- Various GUI improvements and refinements, e.g. more informational window/tab titles.
- Improved NMIS importing now also covers opHA-poller nodes, and access to interfaces' `ifAlias` property
Importing or refreshing nodes from NMIS now handles nodes on remote poller instances if opHA is active on the opEvents server. Event action rules can now access an [interface's Description or ifAlias property](#).
- Events can now include links to other "authoritative sources", e.g. external applications like helpdesk systems or the like.
(See the documentation about `authority` and `location` properties in the list of [Normalised Event Properties](#) for details.)
- Node editing actions are now logged with timestamp and originating user in `logs/audit.log`
- Improved access control, better NMIS authentication integration
opEvents now fully enforces access control based on a user's group memberships: only those nodes and events are visible, where the nodes are members of groups that this user is authorized to see.
The installer now also offers to merge NMIS and Opmantek users' `.dat` password files.
- Better logging and log-rotation support
opEvents now logs to `log/opEvents.log` and the log format and content was revised to make the logged information more useful. Logs are reopened when the `opeventsd` receives a `SIGHUP` signal.
- `opeventsd` now restarts automatically when any relevant configuration files change.
`opeventsd` now can be instructed to also restart periodically, using the new `opeventsd_max_cycles` configuration directive (= restart after so many `opeventsd_update_rate` intervals).

opEvents 1.2.6

This version was released on 9 Sep 2015.

- This version interoperates fully with NMIS 8.5.10G, and requires at least this version of NMIS to be installed. Please check the [Product Compatibility](#) page for details.
- opEvents now works with MongoDB 2.4, 2.6 and 3.0.
- The Help/About screen shows more useful information, including a note about new releases. The window titles and icons have been updated.
- If installed together with opConfig or opAddress, then opEvents now provides links to node-related dashboards in those products when possible.

opEvents 1.2.4

opEvents 1.2.4 was released on 2 Mar 2015.

- This is primarily a maintenance release, which does not introduce any new features.
- The installer was improved for greater robustness and ease of use.
- opEvents now supports sending Syslog messages to Syslog server over TCP and to arbitrary ports.
- a variety of smaller bugs were fixed as well.

opEvents 1.2.3

opEvents 1.2.3 was released on 24 Nov 2014.

- This version includes a [helper for setting up MongoDB for Opmantek use](#), and the installer offers to run the helper on installations and upgrades.
- opEvents now supports per-node licensing and activation: nodes can be marked disabled from within the GUI, in which case the node does not count for license limits and no events are handled for this node. By default all nodes are active.
- The node configuration infrastructure in opEvents is now fully unified and shared with opConfig.
- Renaming nodes in opEvents now also renames all past events for that node.
- opEvents now includes a full-featured command line tool for node administration, `bin/opnode_admin.pl`. This tool implements all node management functions already present in the GUI, as well as some extras to make it suitable for [scriptable node creating and editing](#).
- The ordering of rules in the event action and parsing engines was fixed (under certain circumstances rules could be tested in the wrong order in older versions).
- The default event action rules were improved to better collect diagnostic info in reaction to node- and network-related events.
- The event action `tag.name(value)` has been improved to not clash with internal properties.
- The event action `email(recip)` has been revised for better standards compliance and interoperability with IP version 6.
- `opeventsd.pl` now handles inadvertent log replays better. It can be told (with config option `opevents_max_event_age`) whether older event inputs should be processed or skipped. The handling of missing, malformed or otherwise indigestible log files was made more robust.
- If no opEvents license is present, then `opeventsd.pl` starts but doesn't consume any incoming files; it also creates a log entry about the missing license once every 15 minutes.
- opEvents now supports setting a custom PATH environment for running script/program event actions. If you set the config option `opevents_standard_path`, then opEvents will set that PATH for all external programs that it runs.
- Opmantek applications can now be selectively enabled using the configuration option `load_applications`.
- The installer for opEvents was updated to improve robustness and reliability, and opEvents now ships with the [Opmantek Support Tool](#).
- The display of errors and exceptions in the GUI has been improved.
- various minor improvements and bug fixes in both the GUI as well as the back end.
- a **small warning**: the installer may warn about two "incorrect checksum detected" for two files, if you install this version on top of the Opmantek Virtual Appliance version 8.5.6G or after other Opmantek applications that were released since opEvents 1.2.3. These warnings are benign and you can safely confirm that the installer is allowed to 'overwrite' those files.

opEvents 1.2.2

This is a maintenance release incorporating bug fixes and some new features:

- opEvents now support notes for both nodes and events.
Any notes for nodes that exist in NMIS are imported when you use Import or Refresh from NMIS (in the System->Edit Nodes menu). Notes for events can be edited by users with privilege `Module_opEvents_rw` or higher. Notes for nodes require `Module_opEvents_admin`. Both types of notes are shown on the event and node context pages and can be of arbitrary length.
- Editing of notes for events is recorded (as an action named `note`) with the event, and the user making the change is included in the action log.
- opEvents now creates the necessary database indices automatically on the fly, and it is no longer required to run `"opeventsd.pl act=setup"` for database initialization.
- All opEvents pages were improved with regard to scalability and rendering delays have dropped substantially.
- opEvents' Advanced Search now supports searching by node (also with regular expression).
- The display of the event-over-time chart on the dashboard page was improved to display the 'busiest' node at the bottom of the stacking order.
- Compatibility with Internet Explorer 11 was improved.
- Both `htpassword` hashing modes (`DES/Crypt` and `Apache-custom-MD5`) are now supported.
- some installer improvements and various minor bug fixes.

opEvents 1.2.1

This is a maintenance release which primarily incorporates bug fixes.

- The help texts and tooltips in the GUI have been improved
- Role-based Access Control was added to the opEvents GUI.
- various installer improvements

opEvents 1.2.0

This is a general release with various improvements and bug fixes.

- opEvents now ships with the new [Opmantek Installer](#), which provides a much simpler and safer [installation and upgrade process](#).
- Restyled GUI, added glyphs for better visibility
- A GUI for Node management was added under the System menu, which also provides access to NMIS Node Import functions.
- New helper scripts for external event queue management were added
- Authentication logs are now separate in `log/auth.log` and no longer mixed into `opdaemon.log`.
- Entering a license is now simpler and requires just one click.
- The logic and heuristic for finding associations between IP addresses, short and qualified DNS names and node names was reworked and is now much more robust.
- Node names with "." in them work consistently now.
- The Modules menu was reworked and is more useful now.
- Improved `opdiffconfigs`, `opupdateconfig` and `patch_config` scripts are now shipped with the release.
- The daemon init scripts now work consistently on both Debian- and Redhat-style distributions, and provide a "status" command.
- The robustness of Quick and Advanced Search functions was improved.
- The presentation of the Element Up/Down was repaired and improved.
- The interoperability between Opmantek products has been greatly improved, and all products can now be installed in a cooperative fashion on the same machine.
- The GUI now displays a prominent warning on the main dashboard page, should there be no active opevents daemon.

opEvents 1.1.2

This is a maintenance release incorporating primarily bug fixes. The two noteworthy changes:

- A security issue with the bundled Apache installation has been corrected, which could have been abused for denial-of-service attacks if opEvents was installed with unrestricted inbound access from the Internet.
- The licensing system has been updated: to evaluate opEvents you will require a [new evaluation license](#). Full licenses are not affected by this change.

opEvents 1.1.1

- synthetic events are now subject to full deduplication and storm control
- the package now ships with suitable default log rotation config files
- improved robustness for log parsers and GUI behaviour
- reworked the interface between NMIS and opevents, opeventsd now offers more precise functions for initial import and subsequent refresh operations of NMIS node information.
the GUI now also provides access to these functions.
- improved handling of stateful events for completely unknown nodes or devices
- email contents are now completely configurable in the form of any number of user-defined templates, which includes both email subject and body.
- the GUI now provides a link to the online product documentation.
- opevents can now log events as JSON files, implemented as a policy action.
- opevents now supports flexible watchdog timers for nodes and/or specific nodes' elements, implemented as policy action.

opEvents 1.1.0

- various GUI improvements
- opevents can now log events in NMIS syslog format, implemented as a policy action

- reworked stateful deduplication and event synthesis functionality for improved robustness

opEvents 1.0.6

- various bug fixes, node- and ip-cache-related, interaction between whitelist and rawlogging
- insertion of events from command-line or JSON files was repaired to fix a type issue that kept such events from showing up in the GUI
- fixed an issue that could keep queued events pending for too long on a very lightly loaded system
- GUI updates to improve the display of events' context
- event emails were updated to contain more useful information
- supported policy actions now also include generic tagging of an event
- the escalation subsystem was made more resilient

opEvents 1.0.5

- overhaul of the mail sending infrastructure

opEvents 1.0.4

- fixes for external authentication methods and NMIS import issues
- opeventsd can now parse (and consume) NMIS logs in JSON format

Changes between releases 1.0.0 and 1.0.3:

- opeventsd now resurrects its worker poller on demand
- a new generic parser engine for local customisation was added
- opeventsd can now create events from the command-line or from a single JSON file
- opevents now supports any number of logfiles per log parser type
- the ip address cache now works properly and more efficiently
- opeventsd now displays all supported command-line arguments when run with -h or -?
- opevents now properly handles truncated (not rotated) logs