



RELEASE

760

February 2022

These release notes describe new features, improvements and fixed issues in Pandora FMS NG 760. They also provide information about upgrades and describe some workarounds for known issues.

For more information on previous versions, visit the [release notes](#) section on our website. For information about minimum system requirements, visit the [installation section in our official documentation](#).

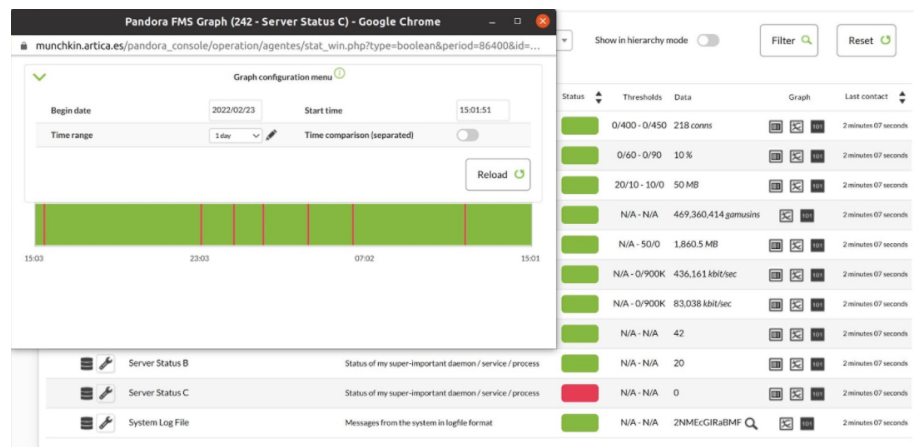
## VERSION UPDATE

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## New features and improvements

### New histogram graph in modules

Added the ability to display a histogram graph for modules. This graph is exclusive for Boolean modules or for modules that have their criticality thresholds defined, it is very useful to see crash periods.



### Alert templates with multiple schedules

The possibility of including several schedules for the execution of both module alerts and events has been incorporated. With this new feature, different time slots can be generated within the same day or week, where alerts can be generated.

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Schedule	<ul style="list-style-type: none"> <li>0:00 - 2:00</li> <li>3:00 - 5:00</li> <li>6:00 - 7:00</li> <li>+3 more</li> </ul>	<ul style="list-style-type: none"> <li>2:00 - 9:00</li> <li>11:00 - 19:00</li> </ul>	<ul style="list-style-type: none"> <li>0:00 - 12:00</li> </ul>	<ul style="list-style-type: none"> <li>12:00 - 0:00</li> </ul>	<ul style="list-style-type: none"> <li>0:00 - 11:00</li> </ul>	<ul style="list-style-type: none"> <li>12:00 - 0:00</li> </ul>	<ul style="list-style-type: none"> <li>12:00 - 0:00</li> </ul>





Detailed Simple

## How to update Pandora FMS

There are several ways to update Pandora FMS console:

- » **Through Update Manager**, in Pandora FMS console itself, automatically (it requires console internet connection).
- » **Through Update Manager**, in Pandora FMS console itself, manually, through OUM update files.
- » **By manually installing packages** (rpm, deb...) and later updating the console through the web interface.

The server will have to be manually updated through RPM or tarball packages.

You can find more information about Pandora FMS downloads on our website:

OpenSource version [🔗](#) packages.

Enterprise version [🔗](#) packages.

For detailed information and the steps to follow to update each item, classified by operating systems, [go to our Wiki](#)

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
all-day							
00	0:00 - 2:00		0:00 - 12:00		0:00 - 11:00		
02		2:00 - 9:00					
04	3:00 - 5:00						
06	6:00 - 7:00 -						
08	8:00 - 9:00 -						
10	10:00 - 17:00						
12		11:00 - 19:00		12:00 - 0:00		12:00 - 0:00	12:00 - 0:00
14							
16							
18	18:00 - 19:00 -						
20							
22							

## New Zendesk integration plugin

A Zendesk integration plugin has been added to the module library. Thanks to this plugin you may create, update and delete tickets from this system from the terminal or from Pandora FMS.



## New inventory plugin for Mac OS X

Just as there were inventory tools for Linux and Windows, you may use this tool for obtaining inventories in Mac OS X. You may get information on CPU, Memory, Disks and Software installed on machines of that OS.

## New section of mass deletions in Metaconsole


With the latest changes in the process of combination and centralization in the Metaconsole, it was necessary to start including massive operations in it. For now, deleting and editing agents from the Metaconsole have been included.

## New internal audit view in the Metaconsole


As part of the steady improvements to Pandora FMS Metaconsole, the internal audit feature that already existed in the node has been added to be able to supervise accesses to the Metaconsole, as well as some of the actions carried out from it.



## Other resources for your interest

Documentation of   
Pandora FMS online

Plugin Library 

Pandora FMS official   
technical support

## Forcing remote checks on Visual Consoles

In order to carry out a real-time monitoring control in visual consoles, a button has been generated to be able to force remote checks that are included in visual consoles, just as it can be done from the detailed view of a node.

## New alert macros

The following alert macros have been added to be able to include more details in notices:

- `_time_down_seconds_`
- `_time_down_human_`
- `_warning_threshold_min_`
- `_warning_threshold_max_`
- `_critical_threshold_min_`
- `_critical_threshold_max_`

## Support for MySQL8 and PHP8

We have included support to be able to use MySQL8 without any type of modification or previous adjustment. We are also preparing the console to work on PHP8 due to the PHP7.4 support ending on 28 Nov 2022.

## Support for RHEL 8.x , RockyLinux 8.x, AlmaLinux 8.x

Due to recent changes to what was our base system so far (CentOS6), we have decided to use RockyLinux 8.x and AlmaLinux 8.x, as well as continue to support RHEL 8.x as the base OS.

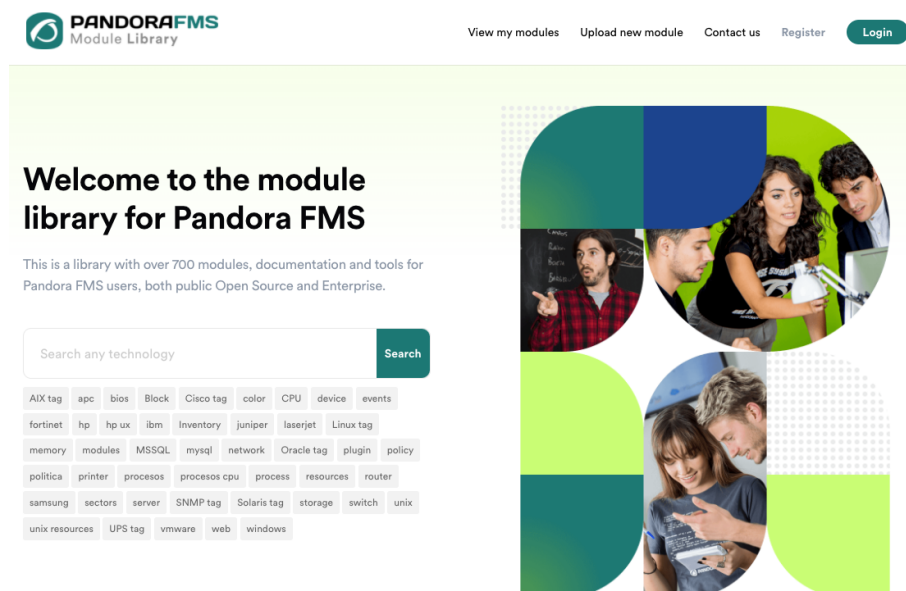


We recommend to all of our users who have to migrate from other unsupported Linux versions (such as CentOS6) to do so to one of these systems. However, we will continue to provide installers in RPM and Tarball format that can be used to run Pandora FMS on such systems.

# Known changes and Limitations

- New installations using ISO have been removed. From now on, the default installer will be the online installer, which, by means of a single command, prepares and installs the entire system from a Linux RHEL 8.x , RockyLinux or AlmaLinux OS.
- The integration of Pandora FMS with the new plugin library has been improved, in order to use the new plugin library you need to be updated to version 760.

## Known changes and limitations



## Fixed vulnerabilities

In this release, different entryways (CSRF, Clickjacking) to Pandora FMS code through the web browser in the following views have been solved:

Case #	GitLab #	Description
11626	8435	jQuery mobile update
N/A	8437	SQL injection in API

## Feature extinction

From now on, the Linux versions supported in new installations with Pandora FMS will be RockyLinux 8, AlmaLinux 8.x and RHEL 8.x . However, we will maintain compatibility with existing installed systems via tarball and rpm packages for CentOS 7.x.

## Changes and improvements

Support #	GitLab #	Description
N/A	8455	Extended character limit on alert commands

## Changes and improvements

Support #	GitLab #	Description
N/A	8161	To improve synchronization between Metaconsole and Node, agent-to-node auto-configuration can be disabled on demand from the Metaconsole
N/A	7821	pandora_db utility for executing a history has been modified so that it only executes the part corresponding to it and not everything as a whole, optimizing working times
12588	8173	Modified report "last value" item so that it takes the value of the data when filtering by time is also performed
N/A	6375	Added auto-application of policies when adding an agent to a group that belongs to a policy
11207	7049	Added option in LDAP and AD to choose whether the user can log in or not by local authentication in case of failure
N/A	8551	Renamed the migration file by pandoradb_migrate_6.0_to_759.mysql.sql, being this version the last one that keeps this file
N/A	8470	It is now possible to hide both the command and the response in the eventResponses to not display data for security reasons (it is optional)
12427	7999	Added index for service elements, optimizing their calculation in case of large services
N/A	3943	Added the possibility of adding several alert schedules in alert templates, through a visual calendar / schedule
N/A	8436	Created plugin for integration with Zendesk
10715	6357	Added the possibility of launching custom queries to the SAP HANA plugin
N/A	8008	Added delete options on the list of agents moved between nodes
N/A	7974	Changed timeout messages when launching an alert, where they can now be seen when using the verbosity token to 3
N/A	7313	Translated all SLA items in reports both in node and in the Metaconsole
N/A	8103/8422	Added view of audit logs in the Metaconsole
N/A	8290	Added agent deletion in mass operations in the Metaconsole
N/A	8206	Added search by modules within module insertion in custom graphs
N/A	8295	Added spinner in custom charts when selecting a time range until the full chart is loaded
12588	8233	Modified history data collection for the increase item in reports, where it takes the last data of the selected period
12711	8276	Added the possibility of copying scheduled downtimes
N/A	8549	The syslog server has been left disabled by default for new Pandora FMS installations
N/A	8119	Created the get_is_centralized api call to find out whether a node is centralized or not
N/A	8026	Replaced the autocreate_group token in server settings by autocreate_group_name so it is created by name instead of ID
N/A	7251	Modified server notifications so that they do not notify servers down on servers that are manually disabled
N/A	8115	Modified the Metaconsole migration server so that it changes the status of the agents to disabled when moving from one node to another
N/A	7301	Improved information visible in the console task summary

## Changes and improvements

Support #	GitLab #	Description
11432	7076	Added the possibility of forcing remote checks inside a visual console
7804	3763	Added new alert macros: <code>time_down_seconds</code> , <code>time_down_human</code> , <code>warning_threshold_min</code> , <code>warning_threshold_max</code> , <code>critical_threshold_min</code> , <code>critical_threshold_max</code>
12764	8330	Modified IPAM subnet list to be more manageable and viewable
N/A	8222	Added new histogram graph for proc modules or with defined thresholds
12717	7485	Included report type generation buttons directly in the HTML view
N/A	8419	Migrated docker images from CentOS8 to Rockylinux
N/A	8356	Developed inventory plugin for MacOS
N/A	8238	Updated Kubernetes plugin
N/A	7978	Added error messages for token verbosity 3 for plugin timeout errors
5917	2359	Added token forced_add in satellite server to add a new agent without having to go through the satellite recon
N/A	7169	Included digital signature in Windows agent installation
N/A	8319	Added checks for applying OUM files so that you cannot use non-consecutive OUMs

## Bug fixes

Case #	GitLab #	Description
N/A	8578	Fixed visual bug in integration with Ehorus
N/A	8500	Updated IPAM page translation to Spanish
N/A	8410	Updated NCM translation
N/A	8155	Fixed visual bugs in the visual styles tab
N/A	8570	Fixed SQL error when using the visual console wizard when there is a module with a % in the name
N/A	8563	Solved error in tree view where agents with uninitialized modules did not appear
N/A	8561	Fixed VMWare CPU calculation using Discovery
N/A	8532	Fixed the agents/modules widget by which it was not possible to select the modules once the agents were chosen
N/A	8509	Fixed error 500 when trying to generate a report with any type of SLA leaving it empty
N/A	8505	Fixed the count of disabled agents from the Metaconsole where the agents disabled in the nodes were not taken into account

## Bug fixes

Case #	GitLab #	Description
N/A	8304	Fixed policy application performance where a failure is displayed if the policy could not be applied due to timeout
N/A	8116	Fixed crash of the Enterprise network server when the machine lacks memory to launch the checks
N/A	7921	Fixed call to pandora-cm-api when including user and pass parameters for buckets
11965	7790	Fixed temporary file mass creation in each JMX plugin execution.
N/A	8508	Modified correlation server queuing so that it queues alerts in the alertserver
N/A	8568	Fixed SQL error when loading an event filter
13103	8560	Fixed the histogram item by which it did not take the rank of assigned time
13092	8559	Fixed disappearance of web module creation
12738	8553	Fixed pagination in external alerts in policies in Metaconsole
N/A	8552	Fixed plugin upload in Pandora FMS console
N/A	8518	Fixed graph linking bug by which in the Metaconsole the histogram appeared instead of the data graph
N/A	8512	Fixed visual error of operator users in IPAM
13049	8507	Fixed arithmetic prediction module creation
12981	8502/8460	Fixed SLA calculation for string data
N/A	8501	Fixed the appearance of graphs in visual consoles when the graph points to another node
N/A	8486	Fixed SAP Discovery monitoring so that elements were passed backwards, always giving an error
N/A	8293/8485/8453	Fixed bug where secondary groups could not be removed from agents
N/A	8469	Fixed visual error when clicking Delete selected elements when there is no element selected
N/A	8468	Fixed HA view failing to connect via SSH when having EL8 package installed
13016	8461	Fixed blocking caused by Discovery Oracle tasks
N/A	8454	Fixed SQL error in mass operations in module copying
N/A	8452	Fixed vertical bar filter on custom charts
12986	8450	Fixed policy application through CLI in Metaconsole
12904	8448/8429/8407	Fixed pandora_db application error in the NCM part
12959	8443	Fixed login via SAML to Pandora FMS console
12953	8441	Fixed state of linked network maps
12945	8434	Fixed the possibility of creating custom SQL templates without a name so that it does not allow it

## Bug fixes

Case #	GitLab #	Description
12934	8433	Fixed event filtering when more than one tag is selected in filtering
12925	8430	Fixed visual message when changing thresholds in SNMP modules
12919	8428	Fixed visual error showing modules in massive operations whereby the full name of the module was not seen
N/A	8427	Fixed api_checker which did not correctly use user or apipass passwords
N/A	8436	Fixed several issues when editing the relationship between network maps
N/A	8423	Fixed visual error when adding a module to an alert template where even if there is nothing added, it appears as new created
12906	8421	Added again the list of backups generated by the Discovery task
N/A	8417	Fixed base64 fill up when creating a WUX module without its HTML
12900	8414	Solved WUX module editing whereby the .side that is being executed does not appear
N/A	8413	Fixed pandora_db_data to version 760
N/A	8412	Fixed visual bug in group item on visual consoles
N/A	8405	Fixed bug in alert actions report where it does not show data if it has more than one action
N/A	8397	Error correction in agent search
N/A	8395	Fixed report generation by means of a template by which the agents were not taken by the regex
12803	8389	Fixed hour mismatch between the different menus of Pandora FMS console
N/A	8388	Fixed event criticality when generating an alert
N/A	8387	Fixed visual bug when linking agents to each other when they should not be able to see each other due to permissions
N/A	8384	Fixed SQL bug when trying to sort events by agent ID
N/A	8383	Fixed automatic combined graphs in report templates
12864	8380	Fixed password reset in the Metaconsole
N/A	8379	Fixed visual bug in module tree view
12848	8372	Fixed rounding in SMART services
10666	8369	Fixed new cluster creation from Pandora FMS console
N/A	8367	Fixed visual bug of the menu in the Metaconsole
N/A	8366	Fixed scheduled downtimes to be able to enter 1 month of scheduled downtime with the same day
12837	8363	Added the possibility to edit Quiet scheduled downtimes where the modules could not be seen
12828	8357	Fixed password reset in Node



## Bug fixes

Case #	GitLab #	Description
12800	8350	Fixed report forwarding by mail template, for which the selected source was not correctly taken
12809	8341	Fixed get_events api call
N/A	8337	Fixed bench refresh on network maps
N/A	8336	Fixed a problem with migration between databases whose name is not "pandora"
N/A	8322	Fixed the application of selected values when creating SNMP modules through the wizard
12738	8317	Fixed the availability report so that it correctly takes the decimal separator parameter for CSV
N/A	8280	Fixed Update Manager in the Metaconsole so that it does not take into account disabled nodes
N/A	8272	Fixed visual bug in inventory alert creation
N/A	8270	Fixed bugs in relation deletion in network maps
N/A	8263	Fixed group coloring confusion in the Visual Console when the group has an alert triggered
12695	8262	Fixed filtering actions in the Metaconsole when moving from one result page to the next
N/A	8260	Fixed visual bug when editing actions in the integration alert with Integria IMS
N/A	8258	Fixed Metaconsole uninitialized wrong module counting
N/A	8255	Fixed alert editing where the chosen item does not appear correctly in the created boxes
N/A	8253	Fixed the owner and added comment of the person who validates an event from external actions
N/A	8232	Fixed the "hide" button in default values in server plugins
N/A	8230	Fixed console general search scrolling when performing a search
N/A	8229	Fixed policy icon appearing where it shouldn't in general browser
N/A	8227	Fixed service tree view for which it did not show all the services
N/A	8211	Added bar at the end when it is not set by default in the public URL in the Metaconsole
N/A	8208	Fixed alert view filtering when searching for a specific action
N/A	8207	Fixed group item mismatch in visual consoles
N/A	8202	Fixed visual error of imbalance in the horizontal bar graph item in the visual console
N/A	8201	Fixed the latest dashboard events widget in the Metaconsole
N/A	8199	Fixed donut graph performance in visual consoles when the data is a 0 string
N/A	8195	Fixed visual bug in full screen visual console menu
N/A	8188	Fixed visual error when unlinking a module/agent in policy in the Metaconsole, where the change to be made does not appear correctly in the queue

## Bug fixes

Case #	GitLab #	Description
N/A	8187	Fixed error whereby removing an agent from a policy in the Metaconsole did not automatically remove the external alerts generated in said policy
N/A	8186	Fixed the Dashboard general visual maps report widget by which it was not properly linked to the visual console
N/A	8180	Fixed display of the selected network map when editing a Dashboard network map widget
N/A	8177	Fixed visual error where the name of the collections file being edited from Pandora FMS console did not appear
N/A	8171	Fixed monitor view filtering in the Metaconsole where only the servers activated from the Metaconsole were displayed instead of the nodes
N/A	8170	Fixed visual bug in tree view when having low screen resolution
N/A	8156	Fixed collection forwarding from Metaconsole to node in PHP 7.4
N/A	8147	Fixed Dashboard Service Map widget display issues
N/A	8141	Fixed visual framing bugs in cluster view
N/A	8137	Fixed the error by which in a report template the disabled modules appeared when they met the regex
N/A	8131	Fixed visual bugs about SQL items in reports
12566	8122	Fixed Dashboard "show a top N of agents modules" widget where the name of the agent was mixed with that of the module
N/A	8118	Fixed timeout for ping check through Satellite server
N/A	8110	Fixed text typos in services
N/A	8108	Solved event display in the view of an agent by which the last 24 hours were not shown
N/A	8085	Fixed error message when only changing the skin in the user's own options
N/A	7988	Modified user synchronization between Metaconsole and node so that users can change the skin if they want to
12380	7956	Fixed appearance of entities in Japanese characters in WUX transactions
N/A	7925	Fixed agent selector in GIS map layers where when editing, it appears "none" instead of the selected agent
N/A	7903	Fixed visual errors when coloring the states in the tactical view in the Metaconsole
N/A	7897	Fixed visual error in the head in the dashboard modules/agents widget in Metaconsole
N/A	7896	Fixed alignment on report items within the Dashboard Custom Reports widget
N/A	7889	Fixed nameless server notifications when the transactional and alert server crashes
12108	7754	Added notice in Dashboards to warn that you can only have one network map per enabled Dashboard
N/A	7686	Added notice in AWS EC2 tasks to warn that if you create a new task with credentials that are already in use, you will edit the old task instead of creating a new one
N/A	7430	Fixed several visual issues on GIS maps
N/A	7899	Solved the merge of autoconfiguration rules from Metaconsole to node

## Bug fixes

Case #	GitLab #	Description
11882	8378	Fixed the external actions search engine in policies in Metaconsole, where it was not possible to type in the search engine
N/A	7879	Added warning message in a node when it is not in the same version as the Metaconsole for its correct operation
N/A	8325	Updates through the "yum update" command in Pandora FMS installation through ISO have been corrected

## Documentation update

Case #	GitLab #	Description
N/A	8510	Updated server migration to new machine documentation
N/A	8571	Updated documentation for assigning groups to policies
N/A	8543	Migration documentation changed from version 6 to version 759, this being the last updated version
N/A	8525	Added documentation for the new online installer
N/A	8523	Added HA configuration documentation for RHEL 8.x /rocky
N/A	8519	Added documentation for alert templates with several schedules
N/A	8446	Modified get_events api call documentation
12952	8438	Corrected the documentation of the SLA calculation of the module when it has the FF threshold configured
N/A	8418	Modification of the documentation of WUX modules when having empty fields
N/A	8402	Added documentation for active/active clusters
N/A	8401	Added remaining NCM documentation
N/A	8364	Added documentation for capacity planning modules
N/A	8129	Improved Elasticsearch documentation
N/A	7146	Added documentation for file control such as debug mode or the XML buffer of software agents
N/A	8556	Added documentation of netflow data purging when the probe is not on the same machine as the database
N/A	8527	Added parameters for silent installation of the software agent on Windows
N/A	8535	Added documentation for the new online installer
N/A	8520	Updated software requirements documentation for Pandora FMS



Remember that you can install the official Pandora FMS update through the Update Manager:

Update [↗](#)

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Case #	GitLab #	Description
N/A	8457	Added documentation for the new alert macros
N/A	8145	Updated server remote configuration documentation
N/A	8586	Added documentation of the new satellite server token forced_add

## Legal Information

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