



RELEASE

751

December 2020

These release notes describe new features, improvements and fixed issues in Pandora FMS NG 751. They also provide information about upgrades and describe some workarounds for known issues.

This is an LTS (Long Term Support) version, a version with maximum stability that incorporates lots of bug fixes. These LTS are only released twice a year.

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](#).

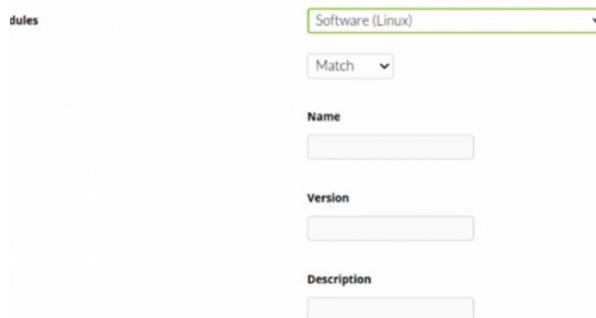
VERSION UPDATE

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New features and improvements

Inventory alerts

This new feature allows you to create specific alerts for when an inventory module comes with a certain value or to generate inclusion or exclusion lists. Perfect, for example, for detecting vulnerable device versions, unauthorized users on machines or unauthorized software usage on computers. And it also allows to generate inclusion or exclusion lists.



New user permission item in reports

A new type of report has been created where you may get a list of users with their respective permissions created in Pandora FMS.

User ID	Full name	Permissions
admin	Pandora	Pandora Administrator / All
internal_API	API User	Operator (Read) / All
test1	Test1	Operator (Write) / Firewalls Operator (Write) / Servers
test2	Test2	Group coordinator / Web Group coordinator / Databases Operator (Read) / Servers
test3	Test3	Chief Operator / Applications Chief Operator / Firewalls Chief Operator / Databases Operator (Read) / Network Operator (Read) / Servers Operator (Read) / Unknown Operator (Write) / Workstations



Added „select all“ option in massive operations

A checkbox has been added to be able to select all the elements in a massive operation research.



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](#)

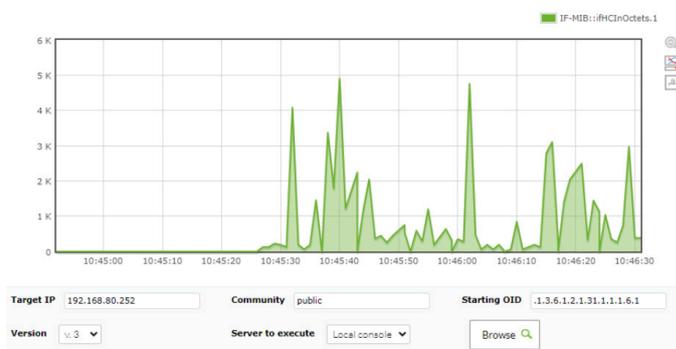
Forced double authentication

Although double authentication already existed in Pandora FMS, the option of forcing it has now been added for all users from console management and for them to not be able to modify its use.



Real-time graphs for SNMP v3

Although it already existed for the rest of the SNMP versions, now you may see the graphs in real time for SNMP checks with v3.



Improved integration with external ITSM and CMDB processes

The existing feature of assigning an external ID to each Pandora FMS module has been improved. That way, integrations with CDMDDB and ITSM processes (ticketing) with third-party tools are easier. New API and CLI calls have been created, as well as alert macros and fields in events to make this feature complete.

Google Cloud monitoring

A new feature has been added within Discovery to be able to monitor Google Cloud. Among these metrics, you may find, among others, the states of the instances, their associated disks and even an instance tree per Zone.





Other resources for your interest

Documentation of Pandora FMS online

Plugin Library

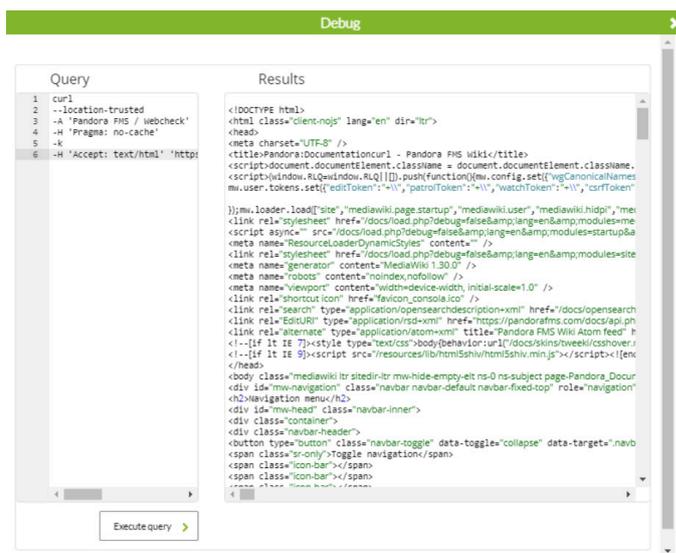
Pandora FMS official technical support

Trap protection interval

The possibility of adding a protection interval against SNMP traps has been added within server settings, where trap protection muting will be disabled after the stipulated interval.

Debug mode in web modules

The possibility of setting a web module in debug mode straight from its configuration has been added in order to check that the desired information is being received in the check, as well as being able to add additional checks when seeing the information received.



Known changes and limitations

Credential store

The location of the credential store has been changed to Pandora FMS console settings. It is currently located in “Configuration -> Credential Store”.

HA environment DB Blocking

A specific database blocking problem has been identified in HA environments when the database maintenance script was launched from two nodes simultaneously. Detection of the main node (Master) has been added so that non-masters do not perform the tasks that cause blocking and a parameter (-f) has been added to force execution and bypass protection if necessary.

Log export to CSV

A new token has been added in the setup to limit the maximum size of lines that can be exported to a CSV in the log view, in order to avoid waiting times there. Instead, if the log to be exported exceeds the configured token, an email will be requested to send said CSV and thus be able to continue browsing the console as usual.

Fixed vulnerabilities

Thanks to the information provided by Matthew Aberegg and Ary Dobrovolskiy, in this release, different entryways (XSS) to Pandora FMS code through the web browser in the following views have been solved:

Case#	GitLab #	Description
N/A	6530	Fixed display of agent logs you do not have access to.
N/A	6619	Fixed vulnerability of php file upload to a location other than the usual console.
N/A	6741	Fixed Discovery network discovery task vulnerability.

Feature extinction

In this release, no existing Pandora FMS features have disappeared.

Changes and improvements

Case#	GitLab #	Description
N/A	6565	Added new tips in the HA node view.
N/A	6542	Modified alert/agent view.
N/A	6493	Optimized Metaconsole provisioning server performance, as well as Metaconsole autoconfiguration rule compliance.
N/A	6489	Modified trial license performance, where no server will work when the license is expired or exceeded.
N/A	6445	Optimized Pandora FMS console loading when a server is down.
N/A	6363	Modified eventserver performance when log collection is disabled or deleted even though there are still active log alerts.
N/A	5266	Modified latency module performance by not having an IP configured, where it will not be initialized.
N/A	6291	Modified macro conversion for its correct use in report templates.
N/A	6148	Added Pandora FMS user permission display report type.
9894	5719	Added possibility to force double authentication.
N/A	6435	Modified display permissions for network maps in OpenSource version.
N/A	6398	Added possibility to see the password being added in any field.

Changes and improvements

Case#	GitLab #	Description
N/A	5316	Changed credential store location to configuration view.
N/A	6424	Modified the 1-item inventory report display, now seen in table mode instead of list.
10593	6253	Added option in massive operations to be able to select all agents/modules.
9287	6179	Modified the setup token "csv_decimal_separator" so that it is taken into account in all Pandora FMS CSVs that contain decimals.
10528	6226	Added Metaconsole event message when the agent belongs to the Metaconsole instead of a node.
N/A	6061	Added downsizing possibilities in network map creation following Discovery VMWare tasks.
N/A	5949	Added real time SNMP v3 graph display.
N/A	3653	Modified scheduled downtime creation performance, where now you may choose an end time and an end time the following day.
N/A	6764	Added the possibility of creating a policy with group ALL.
N/A	6452	Created a button within the Discovery task creation/update to return to the task list.
N/A	5368	Modified the collection editing header so that its name appears.
N/A	6436	Changed the default size of the name column in the Discovery task list.
10500	6020	Added module_group field to rabbitmq plugin.
N/A	4231	Added new discovery task for Google Cloud monitoring.
9693	5835	Modified the quantity that can be exported to CSV in the log view, where when exceeding this quantity an email will be sent instead of exporting it directly in the browser.
N/A	2323	Added Debug method in web modules when creating or editing them.
9625	5572	Added token in the server configuration to be able to enter a time slot to deactivate SNMP trap protection muting.
N/A	5786	Created new type of alert: Inventory Alerts

Bug fixes

Case #	GitLab #	Description
N/A	6820	Fixed AWS task group selector if they did not have the "AW" profile.
N/A	6809	Fixed predefined module selector missing when creating a new module.
N/A	6803	Fixed editing/creating modules in a new policy.
N/A	6794	Modified "UM" profile permissions by which changes could be made to other users with the same permissions.
N/A	6787	Fixed execution problems of server plugins that reached the plugin timeout.
N/A	6775	Fixed the group selector window of any widget in the Metaconsole dashboards.
N/A	6774	Fixed several errors in WUX executions against selenium in Standalone.
N/A	6773	Changed the graph icons in Metaconsole reports that were displaced to the middle of the graph.
N/A	6769	Fixed module/agent selector error on first load of a report that needs both fields filled.
10981/10968	6762	Fixed the call to the "module_graph" API as well as updated its documentation for a proper call.
10560	6758	Fixed Metaconsole Update Manager Offline view.
N/A	6750	Removed log traces when creating a report.
N/A	6746	Fixed service dynamic item deletion when entering pandora_db.
N/A	6742	Fixed delays in WUX checks that caused its queueing.
N/A	6736	Fixed SNMP ifInErrors and ifOutErrors module creation when using the SNMP interface wizard.
11007	6735	Modified SNMP module creation through the wizard interface that created the modules with wrong OIDs.
10965	6724	Fixed agent creation by API call set new agent to create agents with duplicated IP even if connection is not enabled.
10964	6721	Fixed policy appliance in Metaconsole when agents have been added by means of API call.
N/A	6703	Fixed visual bug where Metaconsole menus appeared duplicated for non administrator users.
N/A	6700	Modified correlation alert misplaced buttons.
N/A	6696	Fixed log errors that applied the WUX server even when disabled.
N/A	6692	Fixed update_group CLI call.
N/A	6691	Fixed delete_group CLI call with groups that had blank spaces in their names.
N/A	6688	Fixed discovery SAP tasks when passwords were made up of certain special characters.
N/A	6686	Fixed wrong permissions error when trying to see an agent in Metaconsole tree view.

Bug fixes

Case #	GitLab #	Description
N/A	6683	Modified the create module button misplaced in SNMP wizards.
N/A	6668	Fixed Metaconsole policy appliance by group.
N/A	6656	Fixed inventory timestamp view with items containing old changes.
N/A	6655	Fixed possibility of updating a group and setting the same name as that of another existing group.
N/A	6654	Fixed tree view item count in its different versions.
N/A	6590	Modified console checks when you have a node in HA.
N/A	6585	Fixed agent selector error Metaconsole alert management.
N/A	6566	Fixed HA server view when the window was downsized.
N/A	6560	Fixed module selection in massive alert deletion in policies when choosing a template.
N/A	6536	Fixed service view where the status of the child service agents always was represented in unknown status.
N/A	6532	Fixed smart service performance if they have been created with prediction server disabled and it is then enabled.
N/A	6499	Fixed satellite server performance when having an expired key.
10782	6422	Modified SQL report queries when HTML entities are entered.
N/A	6411	Fixed duplication of remote modules that contained special characters in their names.
N/A	6406	Fixed string data view in tree view.
10763	6400	Fixed email forwarding by agent in Discovery scheduled tasks.
N/A	6399	Fixed Pandora FMS Google Chrome extension with special characters in the password.
10757	6396	Fixed get module_data API call.
N/A	6393	Modified wrong "last modification" field in multiple Pandora FMS views.
N/A	6353	Modified system news creation by which they could be created without subject.
N/A	6348	Fixed view of agents with the same name from different nodes in the Metaconsole, due to which it was not possible to differentiate them.
N/A	6344	Fixed advanced event filtering options in Metaconsole whereby filtering by module did not appear.
10661	6310	Fixed export inventory view CSV.
N/A	6281	Fixed search paging of modules whose names contain a space.
N/A	6269	Modified correlation alert deletion by which it did not ask for deletion confirmation.
10471	6188	Fixed filtering of events where From/To fields were not saved properly.
10434	6175	Fixed creation of local components to which a custom UNIT field was to be assigned.

Bug fixes

Case #	GitLab #	Description
N/A	6157	Fixed input and performance problems in smart services when making changes to thresholds both manually and in massive operations.
N/A	6132	Fixed map key being missing in the first load of pie charts.
N/A	6059	Fixed Discovery SAP and VMWare task settings where the interval was changed to always defined.
N/A	5416	Modified Metaconsole policy appliance when modifying a plugin policy, even though there are no assigned agents.
N/A	3131	Fixed event filtering by information source.
N/A	6827	Omnishell dependencies embedded in agent packages to avoid failures.
10822	6831	Fixed error when creating modules in the SNMP Interface wizard when the port name is similar between them.
11025	6747	Fixed fields 15 to 20 in SNMP alerts that never got the value correctly.



Legal Information

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

Update 

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