



RELEASE

761

April 2021

These release notes describe new features, improvements and fixed issues in Pandora FMS NG 761. 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 TOP-N connections report

A new item has been included in Pandora FMS reports, TOP-N connections. With this report you can have a summary table with the total data from connections and with connections of the interval by port pairs.

Total flows	232.81K
Total bytes	102.52MB
Total packages	107.86M
Average bits per second	92.25KB
Average packages per second	11.85K
Average bytes per packet	0

Source IP	Destination IP	Bytes	% Traffic	Avg. Throughput
231.74.126.65	77.108.8.98	882B	0.00%	689.06 Kbps
140.153.89.89	170.75.154.132	856B	0.00%	668.75 Kbps
155.169.233.152	188.74.140.38	970B	0.00%	631.51 Kbps
105.72.48.126	101.172.41.8	848B	0.00%	602.27 Kbps
166.203.42.14	81.208.170.169	1.006B	0.00%	561.38 Kbps
106.241.162.19	243.162.155.12	783B	0.00%	556.11 Kbps
51.114.23.144	38.169.131.97	909B	0.00%	546.27 Kbps

### New Agent/Module Report

A new item has been included in Pandora FMS reports, Agents/modules status. With this report you will be able to have in a table the state of agents/modules with the last data and the timestamp of this last-received data.

Agents / Modules	CPU Load	CPU IOWait	Load Average	Network_Usage_Bytes	% Network Connection	Conexiones TCP	DiskUsed_ /	Swap_Used
hub.cloud	4 %	0 %	0	425,352.1 bytes/sec	8.1	4,407	3 %	0 %
leprechaun...rus.com	2 %	0 %	0.1	83,492 bytes/sec	5	2,937	20 %	0 %
switch.ehorus.com	7 %	0 %	0.3	822,107.1 bytes/sec	1.2	8,730	28 %	60 %





### 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](#)

## New Custom Render Report

A new item has been included in Pandora FMS reports, Custom Render. With this report you can manage in a more customized way with SQL queries, module graphs and HTML output customization. It allows to create fully customized reports visually, including graphs.

Macro	Type	Value
TOTAL_N	Sq	Sql SELECT COUNT(*) FROM tagente WHERE id_os = 12
TOTAL_V	Sq	Sql SELECT COUNT(*) FROM tagente WHERE id_os = 9
TOTAL_L	Sq	Sql SELECT COUNT(*) FROM tagente WHERE id_os = 1
GRAPH1	Sir	Agent fenix.artica.es Module Apache CPU (%) Height 200 Period 30000

**PANDORAFMS**

Network agents: **TOTAL\_NET\_AGENT\_**

Windows agents: **TOTAL\_WIN\_AGENT\_**

Linux agentes: **TOTAL\_LINUX\_AGENT\_**

\_GRAPH1\_

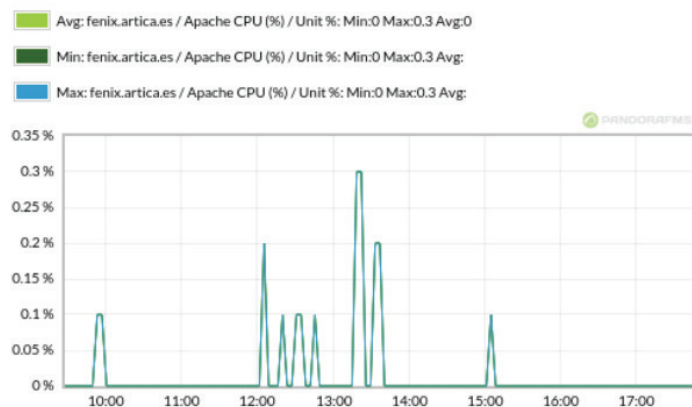
Custom render sample



**Network agents: 18**

**Windows agents: 47**

**Linux agentes: 120**





### Other resources for your interest

Documentation of Pandora FMS online

Plugin Library

Pandora FMS official technical support

## New Agent/Module status Report

It allows to show a list of agents/modules with their state, filtering previously by group.

The screenshot shows the Pandora FMS Enterprise interface. At the top, there is a header with the Pandora FMS logo and the word "test". Below the header, there is a search bar with the text "Titulo All - All" and a "Descripción" label. The main content is a table with the following data:

Agent	Module	Group	Status	Data	Last time
nodo-1-pandorafms	Status	Unknown		1	2022-02-11 08:58:21
nodo-1-pandorafms	Database Maintenance	Unknown		0	2022-02-11 08:58:21
nodo-1-pandorafms	Queued_Modules	Unknown		1	2022-02-11 08:58:21
nodo-1-pandorafms	Agents_Unknown	Unknown		0	2022-02-11 08:58:21
nodo-1-pandorafms	System_Load_AVG	Unknown		1.6	2022-02-11 08:58:21
nodo-1-pandorafms	Free_RAM	Unknown		261,944	2022-02-11 08:58:21
nodo-1-pandorafms	FreeDisk_SpoolDir	Unknown		8,470.6	2022-02-11 08:58:21
nodo-1-pandorafms	Execution_Time	Unknown		119us	2022-02-11 08:58:21

## New alert templates

(For new installations)

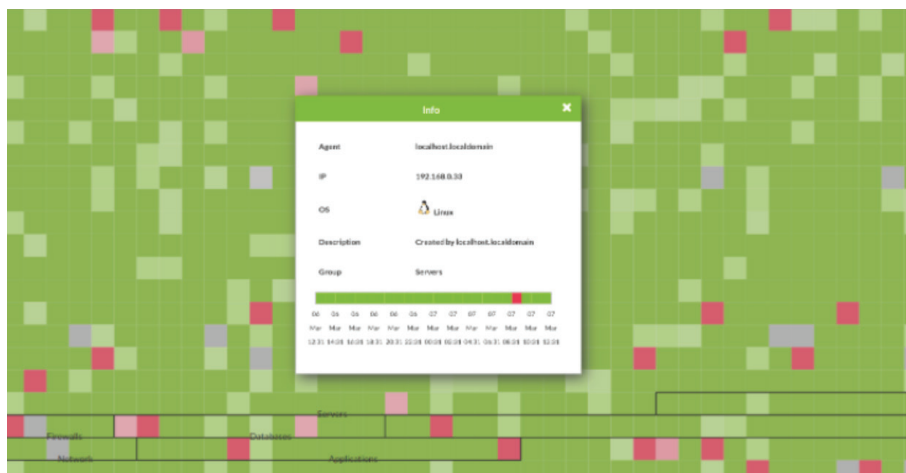
The screenshot shows a new alert template for Pandora FMS. The header includes the Pandora FMS logo and the text "Automatic alert system". The main content features a red warning icon with a white exclamation mark. Below the icon, the text reads: "We have bad news for you, something is on **CRITICAL** status!". A dark blue button with white text says "Go to Pandora FMS Console". Below the button, there is a section titled "Monitoring details" with the following information: "Data: \_data\_(modulestatus\_)", "Agent: \_agent\_address\_", "Module: \_module\_moduledescription\_", and "Timestamp: \_timestamp\_". At the bottom, there is a section titled "This is a graph of latest 24hr data for this module" with the text "\_modulegraph\_24h\_". The footer contains the text "Contact Us | Support | Docs".

If you want to use the new template, it is available in our module library. [Download here the templates](#)

## New features and improvements

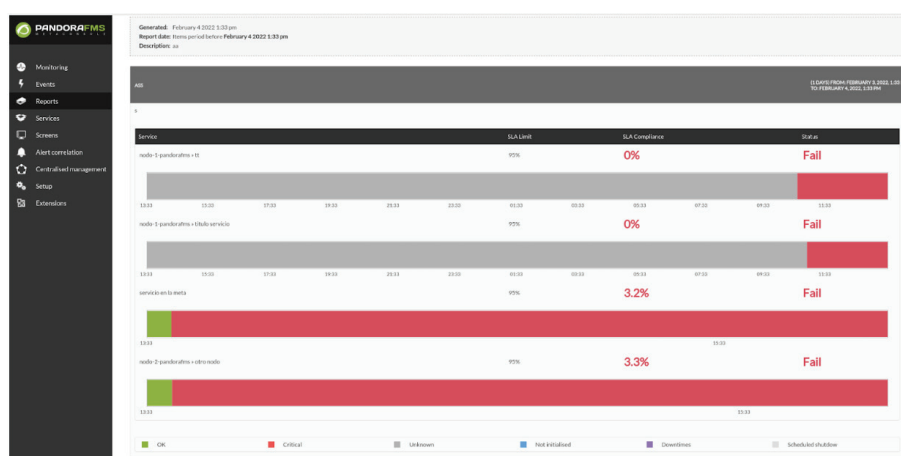
### New Heatmap view

A new view has been added, Heatmap. In this view you will be able to see all the information from Pandora FMS organized by groups and groups of modules or agents. It is a view that refreshes constantly and that allows to see all the monitored information at a glance.



### New SLA services Report

A new item has been included in Pandora FMS reports, SLA services. With this report you will be able to see the SLA of the services that you want to configure, combining data from different nodes in a single report.



## Fixed vulnerabilities

Thanks to the information provided by Faisal FS  
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
N/A	8679	File Manager

## Fixed vulnerabilities

Case #	GitLab #	Description
N/A	8633	User editing
N/A	8611	Mass user editing
N/A	8610	Profile editing

## 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	8400	Added feature to delete backups created using console tasks
N/A	7690	Added Update Manager warning capability for LTS versions only
12764	8607	Added custom ID column to VLANs in IPAM
N/A	8300	Added console task enable/disable token, which will be automatically activated when a task fails to be performed
N/A	7928	Generated Update Manager update history entry in the audit log
N/A	8557	Created new mail templates for warning and OK and modified the critical template
12117	7699/8761	Changed the way to generate Satellite agent configuration to differentiate it from software agents and be able to do parallel monitoring on the same machine
N/A	7169	Added certificate to digital signature in Windows software agents
N/A	8540	Added new Custom Render report in Pandora FMS reports
N/A	8521	Updated windows agent wmic binary to support new Windows security policies
N/A	8463	Added pandora_ha monitoring to the tentacle_server to activate it in case of failure
N/A	8243	Added new TOP-N connections report
N/A	8777/8496	Added summary notifications of successful and failed discovery tasks in case of lack of configuration
N/A	8399	Added new token for phantomJS cache cleanup to prevent mail sending and reporting failures

## Changes and improvements

Support #	GitLab #	Description
12855	8374	Added disabled agent view in the Metaconsole
N/A	8102	Added database interface for the Metaconsole
N/A	7933	Added new filtering in external alerts in policies both in node and in the Metaconsole
N/A	7398	Added the option to export events to CSV in the Metaconsole
N/A	7225	Added tokens to reject within VMWare monitoring tasks in Discovery
10105	5886	Created a table in the active scheduled downtimes to be able to see their agents/modules
12689	2152	Added secondary group editing options when mass editing agents
N/A	8340	Added custom fields option within the event view
N/A	8338	Modified custom field saving to be JSON instead of Base64
12001	7653	Added new module and agent status report
N/A	7063	Added new service SLA report
11774	7461	Changed the way to obtain the OS of the installed software agents
N/A	8706/8704	Added the option of monitoring with SNMP in the recon task of the Satellite server
N/A	8622	Changed the way to manage alert server queuing by having a non-master server
N/A	8594	Changes to permission management in errorlog_file
N/A	8547	Added new macros for the response of events: <code>_owner_username_</code> and <code>_current_username_</code>
N/A	8780	Improved the <code>mysql_query.py</code> plugin to add outputs to the plugin in case of success without result
N/A	8614	Added improvements to <code>pandora_ux</code> plugin: phase addition, description and error correction
N/A	8541	Modified licensing management on Satellite servers
N/A	8533	Added new data display options on agent/module views, on the dashboard widget and on reports
N/A	8458	Added heat map view
N/A	8339	Included new macros to include custom data in events
N/A	8332	Added the possibility to configure a second LDAP server
13378	8800	Improved Metaconsole and node event view performance

# Bug fixes

Support #	GitLab #	Description
13250	8760	Fixed inventory view loading for Metaconsole environments with mass inventory
N/A	8759	Fixed opening agents from the inventory view from the Metaconsole
13270	8693	Fixed the general search in Pandora FMS console so that it is not case sensitive
N/A	8432	Fixed automatic history database partitioning using pandora_db
N/A	8394	Fixed errors in Pandora FMS audit log when using the Update Manager
N/A	8359	Fixed Web server false critical points when the machine runs out of memory
N/A	7621	Fixed the use of API users for environments with external authentication configured, where only the API user can now be used
N/A	8782	Fixed policy alert application in new installations
N/A	8764	Fixed new SLA item creation error in reports
N/A	8742	Fixed GIS map new generation, where it could not be displayed
13348	8740/8719	Fixed the SQL error in the agent view when searching
12903	8739	Fixed error 500 in module and SNMP real-time graphs using PHP 8
13325/13257	8736	Fixed WUX checks when the recording has an accent
13310	8727	Fixed authentication in the AWS view when containing a space in the ID tag
N/A	8724	Fixed API calls to the Metaconsole, by which all failed
N/A	8722	Fixed visual console name updating when going to another from the link
N/A	8714	Fixed policy view in the Metaconsole in PHP 8
N/A	8703	Fixed package loading/downloading error in the file repository. Added also an error message in case of failure due to apache configuration
N/A	8702	Fixed the "db_maintenance" token updating in the history database when passing the pandora_db
N/A	8699	Fixed SQL error when creating a new user to which profiles are not added
13244	8697	Fixed event actions when performing through the Dashboard widget
N/A	8694	Fixed excessive CPU usage and policy self-enforcement error by group when there are non-existent policy IDs due to previous failures
13244/13259	8692	Fixed lack of remote agent configuration display
N/A	8689	Fixed the lack of display of agent wizards
N/A	8688	Fixed the lack of agent collection display

## Bug fixes

Support #	GitLab #	Description
N/A	8687	Corrected the schedule editing in alerts to be able to edit on weekends
13205	8683	Solved agent generation duplicity by means of the syslog server
N/A	8681	Fixed autologin in the node when clicking on an element of a visual console in the Metaconsole
N/A	8676	Solved several failures in visual consoles in mobile devices
N/A	8670	Corrected new Supernet IPAM creation when trying to create them without required fields
N/A	8667	Fixed the possibility that there are two pandora_ha processes running so that it can no longer happen
N/A	8664	Fixed disabling/enabling modules when using PHP 8
N/A	8662	Fixed the non-appearance of items with an assigned parent within the tree view
N/A	8656	Fixed the search engine in event responses when trying to change its owner
N/A	8654	Fixed manual policy enforcement to a single assigned group
N/A	8651	Fixed visual bugs in the console settings section
N/A	8649	Fixed report wizard creation for the Custom Graph item
12800	8648	Fixed SLA report creation for non-Latin languages, as well as their submission in scheduled tasks
N/A	8645	Changed the setting of Dashboard widgets
13199	8634	Fixed action filtering in creating and editing created alerts
N/A	8627	Fixed supernet assignment in IPAM when having different sites
N/A	8624	Modified the display of command snapshot view captures
N/A	8612	Fixed several report display errors and exported them to Netflow item center
13165	8609	Modified the agent installation perl package for RHEL 8
N/A	8605	Fixed the multiple-choice box in the custom charts view
13158	8599	Fixed the module creation bug in a policy if it contains a macro
N/A	8596	Fixed calculation of state by critical elements in visual consoles
N/A	8591	Fixed the error when sending feedback from Pandora FMS console
N/A	8583	Fixed visual errors when forcing the status of a service
N/A	8577	Fixed not being able to create an IPAM task without location that could not then be deleted
13127	8573	Fixed tactical view count whereby child groups were not well taken into account
N/A	8569	Modified the link of visual consoles so that it is enabled by default



## Bug fixes

Support #	GitLab #	Description
N/A	8566	Fixed several visual bugs in the mobile version of Pandora FMS
N/A	8565/8283	Modified pandora_db performance so that they do not generate blockages when being passed in the history database
N/A	8562	Fixed overlay of aids with the main menu in the Metaconsole
13097	8555	Fixed Field1 deletion in alert templates by which they did not take into account whether the field was empty in the actions
N/A	8530	Fixed scheduled task generation in the Metaconsole by which agents were not saved in reports forwarding by mail
13084	8524	Fixed event response creation by which they could be generated without a name
N/A	8511	Fixed visual error in IPAM user creation for user "none"
13243	8494	Fixed custom check performance in Discovery SAP
N/A	8447	Fixed counting users created in Pandora FMS tactical view
N/A	8415/8390	Fixed visual error in the template list when the user does not have RM permissions
N/A	8386	Fixed server icon display for users who do not have permissions to see it
N/A	8381	Fixed agent filtering in the interface view where agents that did not have this type of modules appeared
N/A	8351	Fixed visual error of success message when changing to a report item
N/A	8282	Solved entity errors in software agent repositories
N/A	8112	Fixed visual errors of the portable version of Pandora FMS
12525	8100	Fixed the size lag in graphs between visual consoles and dashboards
N/A	8077	Fixed source mirroring when the syslog server is enabled
13300	8713	Corrected translation deficiencies in multiple menus in Spanish
13445	8833	Fixed the menu for new users in environments with php 8 where it could not be displayed
12868	8851	Fixed the non-display of agents for standard users when generating reports in the Metaconsole through templates

## Documentation update

Case #	GitLab #	Description
N/A	8680	Updated dependency documentation to add "libs!" as a server dependency
N/A	8776	Added new documentation for custom fields in the event view

## Documentation update

Case #	GitLab #	Description
N/A	8705	Updated the boot documentation of services used by Pandora FMS
N/A	8640	Pandora UX documentation refactored
N/A	8602	Updated installation documentation for new supported OS, and removal of those unsupported
N/A	8510	Added CentOS 7 to RHEL 8 system migration documentation
N/A	8704	Added documentation for SNMP v3 monitoring in the Satellite server recon task
N/A	8748	Updated external login documentation for administrator users
N/A	8746	Updated the call to CLI create_event
N/A	8684	Added new documentation for new event response macros
N/A	8629	Added new VLAN documentation in IPAM
N/A	8613	Added TOP-N connections reporting documentation
N/A	8595	Updated CLI documentation
N/A	8593	Added translations of the list of SAP modules
N/A	8572	Added Agent/Module status reporting documentation
N/A	8531	Added mass agent editing documentation with secondary groups
N/A	8504	Added new API element information
N/A	8671	Added documentation for the new options in the "Admin Tool" menu



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

Update 

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# Legal Information

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