

# License Statistics v6.0 Release Notes

License Statistics version 6.0 includes the enhancements and fixes detailed below. Most of these improvements were made in response to [customer feedback](#). For more information on how we incorporate customer feedback into our development process, see [Customer-driven development](#).

For information about activating your License Statistics license, see [Activating a License Statistics license on Windows](#) or [Activating a License Statistics license online](#).

## User Interface

This release is a result of our hard work to improve the License Statistics user interface's performance and usability. We achieved these improvements by replacing the outdated Ext JS 4 framework with Ext JS 6 and by reducing the number of technologies used (including removing PHP, OpenSSL and Apache HTTP Server for easier maintenance).

Details about the changes introduced in this release are given below. For larger installations, we strongly recommend testing the upgrade procedure before running License Statistics v6.0 in production. If you have any questions or problems, please contact [X-Formation Support](#).

## Licensing

License Statistics v6.0 introduced a [new licensing model \(2019\)](#) that significantly simplifies licensing rules. The [old licensing model \(2013\)](#) is still available to customers for a limited time, as described in [License Transition](#).

## Configuration file

Due to technological stack changes, we modified the structure of the xflcstat.cfg configuration file. A number of configuration options were removed and new options added. In addition, stricter validation of the file was introduced. As a result, *you must use the new configuration file delivered with License Statistics v6.0* and adjust it to your needs instead of simply copying the old xflcstat.cfg file from previous installations.

### Highlight of configuration file changes

- Strict validation of the configuration file structure will block any xflcstat.cfg file that contains deprecated options and License Statistics will fail to start.
- Removed options (related to removed PHP, OpenSSL and Apache HTTP Server) include:
  - CORE\_HTTP\_PORT
  - SSL\_CERTIFICATE\_FILE
  - SSL\_CERTIFICATE\_KEY\_FILE
  - WEBSERVER\_USER
  - WEBSERVER\_GROUP
  - TIMEZONE
- Newly introduced options (related to [new licensing model](#) and new [SSL configuration](#)) include:
  - LICENSE\_TOTAL\_USER
  - LICENSE\_TOTAL\_SERVER
  - SSL\_KEYSTORE
  - SSL\_KEYSTORE\_PASSWORD
  - SSL\_KEYSTORE\_KEY\_ALIAS
  - SSL\_PROTOCOLS
  - SSL\_CIPHERS
  - LDAP\_SSL\_KEYSTORE
  - LDAP\_SSL\_KEYSTORE\_PASSWORD
- Options that were available for troubleshooting, but were previously undocumented include:
  - CORE\_MIN\_RAM
  - CORE\_MAX\_RAM
  - CORE\_JAVA\_FLAGS

See [Configuring License Statistics](#) for details on configuration file settings.

## Enhancements

License Statistics v6.0 includes the following enhancements.

Issue #	Description
<b>New user interface</b>	
LICSTAT-15100 LICSTAT-12718	New layout of login screen.
LICSTAT-13410	New Dashboard.

LICSTAT-13311 to LICSTAT-13318 LICSTAT-13281 LICSTAT-13280 LICSTAT-13217	New layout of Administration pages.
LICSTAT-13306 to LICSTAT-13310	New layout of Preference pages.
LICSTAT-13297 to LICSTAT-13305	New layout of Report pages.
LICSTAT-13294 to LICSTAT-13296	New layout of License Servers pages.
LICSTAT-13290 to LICSTAT-13293 LICSTAT-13267 LICSTAT-13218	New layout of Feature pages.
<b>Additional user interface enhancements</b>	
LICSTAT-15920 LICSTAT-15712 LICSTAT-15711 LICSTAT-15706	Improved consistency of error messages.
LICSTAT-15673	Landing page is displayed whenever License Statistics is upgrading or initializing.
LICSTAT-15544 LICSTAT-15403	Redesigned layouts to manage email notifications.
LICSTAT-15512	Redesigned layouts to configure LDAP and mail servers.
LICSTAT-15485	Improved combo boxes displaying long lists with additional filter.
LICSTAT-15484	Reorganized Settings panels on reports.
LICSTAT-15457	Extended Current License Usage chart with additional data.
LICSTAT-15216	Improved General Panel with additional information.
LICSTAT-15126	Saving license server verification report is now independent from application server.
LICSTAT-15089	Introduced navigator in all charts with large amount of data to support zooming.
LICSTAT-15011	Introduced new notification popups.
LICSTAT-13919	Charts are now hidden when there is no data to show.
LICSTAT-13187	Extended routing now allows for external links to various pages.
LICSTAT-12958	Replaced automated redirects with suggestions to move to different section.
LICSTAT-10121	Introduced ability to add custom message on login page.
<b>Improved application architecture</b>	
LICSTAT-15976	Update <a href="#">lacutil</a> to v5.
LICSTAT-15814	Upgraded Java JDK to v12.0.1.
LICSTAT-15653	Upgraded list of supported platforms and browsers.
LICSTAT-15572	Upgraded LM-X to v4.9.12.
LICSTAT-15534	Changed folder structure due to architectural changes.
LICSTAT-15402	Removed OpenSSL.
LICSTAT-15356	Removed PHP.
LICSTAT-15220	Upgraded Ext JS to v6.6.0.
LICSTAT-14980	Replaced Apache HTTP Server with Apache Tomcat.
<b>Licensing</b>	
LICSTAT-15831	Support for new structure of the license file.

LICSTAT-15821	Removed support of user-host calculation for <a href="#">new licensing model</a> .
LICSTAT-15768	Presentation of <a href="#">new licensing model</a> values on License Detail page while using <a href="#">old licensing model</a> for easier <a href="#">transition</a> .
LICSTAT-15728	Introduced documentation describing <a href="#">old</a> and <a href="#">new</a> licensing models with <a href="#">comparison</a> .
LICSTAT-15626 LICSTAT-5291	Introduced new License Detail page presenting License Statistics license details.
LICSTAT-15551 LICSTAT-15422	Upgrading license server version without valid maintenance was prevented.
LICSTAT-15464	Added support for new licensing model rules while maintaining old licensing model.
LICSTAT-15390	A new <a href="#">Read-only mode</a> allows running functionally limited application without a valid license.
<b>API enhancements</b>	
LICSTAT-15918 LICSTAT-5291	Added API endpoint to get licensing details.
LICSTAT-15897	Translation of license server status on exported reports.
LICSTAT-15812 LICSTAT-15803	Removed inconsistencies of exported reports with user interface.
LICSTAT-15762	Extended API endpoint for Current Users report.
LICSTAT-15687	Improved API endpoint for license servers in terms of handling host names and ports.
LICSTAT-15613	Improved consistency of parameter names for various endpoints.
LICSTAT-15584	Extended API endpoint for listing license servers.
LICSTAT-15559	Extended API endpoints for operations on general options.
LICSTAT-15545	Extended API endpoints for operations on Misc options.
LICSTAT-15527	Improved consistency of filter parameter types for various endpoints.
LICSTAT-15377	Improved consistency of parameter types for various endpoints.
LICSTAT-15370	Improved error message for invalid email address.
LICSTAT-15319	Improved validation while editing License Statistics user's email address.
LICSTAT-15188	Added API endpoints to configure importing data from LDAP.
LICSTAT-15062	Added API endpoints to configure authentication rules using LDAP.
LICSTAT-14305	Extended API endpoints for getting session details.
LICSTAT-12376	Added API endpoints to control email subscriptions.
LICSTAT-12374	Added API endpoints to authenticate License Statistics users.
LICSTAT-12372	Added API endpoints to configure connection to email server.
LICSTAT-12367	Added API endpoints to configure connection to LDAP server.
<b>Configuration changes</b>	
LICSTAT-15813	More strict validation of <i>xflicstat.cfg</i> configuration file.
LICSTAT-15671	Improved <i>xflicstat.cfg</i> configuration file structure and description.
LICSTAT-15343	All historically hidden configuration file options have been published and documented.
<b>Removed features</b>	
LICSTAT-15826	Removed ability to remove historical data older than specified date.
LICSTAT-15550	Removed internal mechanism that attempted to rerun License Statistics after a single component failure.
LICSTAT-15492	Dropped functionality of grouping rows on Current Users grid.
LICSTAT-15178	Database structure file ( <i>database_structure.sql</i> ) has been removed from installer files.
LICSTAT-13597	Ability to store User Interface preferences in database per user account has been temporarily disabled.

<b>Additional enhancements</b>	
LICSTAT-15717	Logging failed query results.
LICSTAT-15705	Redirection to HTTPS is gracefully disabled for non-root user on Linux.
LICSTAT-15675	Refreshed graphics in the Windows installer.
LICSTAT-15616	Improved database validation on startup.
LICSTAT-15615	Introduced mechanism controlling size and number of stored log files.
LICSTAT-15434	Obsolete License Statistics options have been cleared out.
LICSTAT-15396	Improved consistency of license server statuses.
LICSTAT-15393	SSL implementation replaced with Java.
LICSTAT-15383	Add ability to set email address when creating user.

### Fixes

License Statistics v6.0 includes the following fixes.

<b>Issue #</b>	<b>Description</b>
<b>Issues related to previous User Interface</b>	
LICSTAT-15697 LICSTAT-13875	Fixed an issue with Cancel button not working properly when adding a new license server.
LICSTAT-15107	Fixed an issue with obtaining proper timezone for PHP.
LICSTAT-13553	Fixed an issue with missing gaps on Usage History Comparison chart.
LICSTAT-13038	Fixed an issue with missing logout warning message on session expired.
LICSTAT-12781	Fixed an issue with incorrect column behavior while hiding and resizing Feature sub-columns on grids.
LICSTAT-12015 LICSTAT-11628	Fixed an issue with failing to saving state of form settings on some reports.
LICSTAT-8695	Fixed an issue with incorrect behavior of Settings panel after it was collapsed.
LICSTAT-6735	Fixed an issue with unresponsive user interface while loading Usage Comparison chart that was too complex.
<b>Additional issues</b>	
LICSTAT-16057	Fixed an issue with querying redundant Dassault license servers.