CLM Release Notes

Product: Corporate License Manager (CLM)

Version: 2.38.0

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From: Licensing Team

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General Information

Obtaining the New Software Version

The latest Leica CLM version installer package and documentation can be obtained from the Leica Geosystems myWorld website at myWorld @ Leica Geosystems, section myDownloads/Licensing/CLM.

Continuous Delivery Lifecycle

- The CLM License Manager is released in a continuous deployment lifecycle.
- New features or fixes can be released as soon as they are implemented.
- Major releases will be announced through sales news.
- Minor releases will be available for download on myWorld.
- The latest CLM 2.x version includes an automatic update check feature, informing users about available updates and allowing the direct download of the updated CLM version.

Known Issues

Startup Problems or Visual Issues on Some VM Environments

- On some VM environments, the CLM might fail to start correctly, showing only an empty window or exhibiting visual artifacts during runtime.
- **Workaround**: Set the following environment variable (either system-wide or only for the CLM.exe):

```
QSG_RHI_PREFER_SOFTWARE_RENDERER=1
```

Error when running CLM on Windows Server 2016 (prior 2.26)

- CLM 2.24 & 2.25 fail to start with message box indicating: “The procedure entry point SetThreadDescription could not be located” on Windows Server 2016
- **Possible Workarounds**:
  - Update Windows Server to newer version
  - Use CLM 2.26 or later

Automatic application update download not working (2.21 - 2.27)

- CLM 2.21 through 2.27 automatic application update download may fail with a 0 KB file size in the ‘Downloads’ directory
- Possible Workaround:
  - Manually download latest CLM version from MyWorld

Version Updates

CLM 2.38.0

- **Improvements:**
  - Fixed missing signatures on several 3rd party DLLs.

CLM 2.37.0

- **New Features:**
  - CLMCommandLine: Added `query-feature-users <hostname> [--show-free]` command, listing per feature which users currently consume it on a license server.
- **Improvements:**
  - OpenSSL updated to 3.5.9
- **Bugfixes**:
  - Fixed a possible crash during the automatic application update check.

CLM 2.36.0

- **Bugfixes**:

- Fixed missing signatures on several DLLs.
- Fixed an issue where CLMCommandLine (linux) would not start correctly on some newer ubuntu distributions.
- Fixed a rare issue in which closing the borrowing dialog while a search ran could display incorrect data.

CLM 2.35.0

- **Improvements**:
  - Improved error reporting when downloading auto-updates for the CLM application via windows notification
  - OpenSSL updated to 3.5.7
  - Zlib updated to 1.3.2
  - CLMCommandLine: Added option to release an acquired feature immediately (useful for testing/verification)
- **Bugfixes**:
  - Fixed a rare issue where the application could crash after startup

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CLM 2.34.0

- **Bugfixes**:
  - Fixed an issue where upgrade or uninstall operations could fail under corner-case conditions.
    Note: This fix is not retroactive and will only apply to upgrade or uninstall operations performed from this version onward.
  - Fixed an issue where the usage display could show duplicate entries.

CLM 2.33.0

- **Improvements:**
  - Updated Qt library to 6.11.1
- **Bugfixes**:
  - Fixed a possible crash of the license server when automatic license renewal is enabled.

CLM 2.32.0

- **Improvements:**
  - Improved certificate handling for licensing services. Secure connections to licensing services now work reliably on Windows systems that don't regularly update their root

certificates.

- **Security**:
  - OpenSSL updated to version 3.5.6

CLM 2.31.0

- **Improvements:**
  - Improved application responsiveness during startup
  - Added missing translations for several UI dialogs
  - CLMCommandLine: Added license custom string to the output of query-features command
- **Bugfixes:**
  - Fixed a rare crash causing the application to close shortly after startup, before displaying any licenses, on Windows systems using an older Microsoft C++ runtime version

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CLM 2.30.0

- **Improvements:**
  - Official support for Windows Server 2025 added
  - OpenSSL updated to 3.0.19
  - Licensing components updated to 11.19.9.0

CLM 2.29.0

- **Improvements:**
  - OpenSSL updated to 3.0.18
  - SQLcipher updated to 4.6.1
  - MSVC runtime updated to 14.44
  - CLMCommandLine: Added expiration and maintenance dates to the output of query-features command
  - Now chosen borrow duration during borrowing workflow is saved between runs
- **Bugfixes:**
  - Fixed a rare issue where the application would not close correctly

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CLM 2.28.0

- **Bugfixes:**
  - Fixed automatic software update via windows notification not downloading correctly, resulting in 0KB file in Downloads directory.

CLM 2.27.0

- **Improvements:**
  - Added Korean translation.
  - Added missing translations for other languages.
- **Bugfixes:**
  - Fixed error which appeared when trying to return a borrowed license which meanwhile expired on the license server.

CLM 2.26.0

- **Bugfixes:**
  - CLM gui can now correctly execute on Windows Server 2016

CLM 2.25.0

- **Improvements:**
  - Removed deployment of legacy.dll to installation folder.
  - Renamed "*Client License Manager*" to "*Corporate License Manager*"
- **Bugfixes:**
  - Fixed an issue where lslgs.log would erroneously print errors repeatedly.

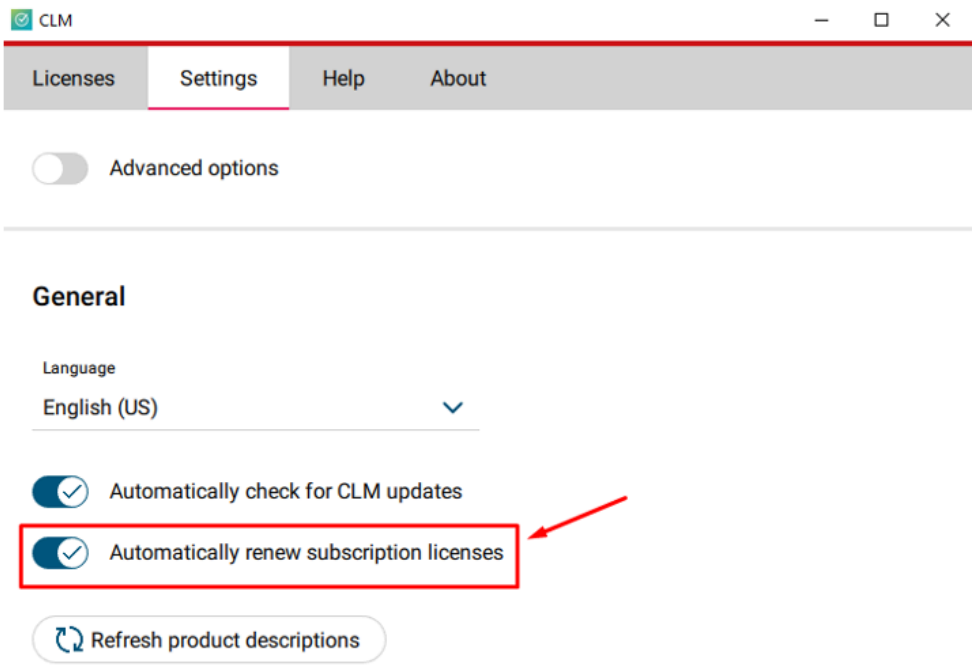
CLM 2.24.0

- **Improvements:**
  - Updated Qt library to 6.8
- **Bugfixes:**
  - Fixed an issue where the Activation Wizard application would fail to start correctly in a setup where administrative rights are needed.
  - Fixed CLMCommandLine application not being signed correctly.

CLM 2.23.0

- **New Features**:
  - **Automated subscription licenses renewal.**
    To automatically update any renewed subscription licenses, enable the option 'Automatically renew subscription licenses' on the 'Settings' tab of the CLM GUI.
    Once enabled, all activated subscription licenses will be updated after system boot, at FlexNet License Server restart and once per day at 2 am.

Note: Usage of the licenses by clients may be interrupted during renewal process. It is advised to not enable this feature if there is a 24/7 system depending on the license availability.



- **Bugfixes**:
  - Fixed an issue where the email address in the offline activation dialog could not be copied to clipboard

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CLM 2.22.0

Improvements

- Upgraded Flexera components from 11.19.2.0 to 11.19.6.0.
- General security and stability improvements for the Licensing Server (LGS).

Bugfixes

- Fixed an issue in the CLM Wizard that prevented valid features from being checked out when using the `minimumFVD` parameter.

CLM 2.21.0

Improvements

- Upgraded Qt library to 6.5.3.

CLM 2.20.0

New Features

- Added CLM Command-line application for executing license management operations (Activation, Update, Return, Acquire/release, Query features).

Improvements

- Upgraded Microsoft Visual C++ to 2015–2022 Redistributable 14.40.33810.
- Removed old dependencies from the installer (e.g., OpenSSL 1.x).
- Removed deprecated CLM 1.8 suite (CLM remote daemon, CLM 1.8 Activation Wizard).

CLM 2.19.0

Bugfixes

- Fixed an issue where a license activated by an older version of the CLM x86 application was no longer updatable.

CLM 2.18.0

Improvements

- Upgraded Qt library to 5.15.13.

Bugfixes

- Fixed an issue leading to license server timeouts with many connected clients.

CLM 2.17.0

Improvements

- Enhanced `lgs.log` file with more precise timestamps for easier analysis.

Bugfixes

- Fixed an issue where a checkout could fail on a low-spec license server.

CLM 2.16.0

Improvements

- Improved performance of the borrow and return actions.

Bugfixes

- Fixed activation or return failures on low-spec machines or slow internet connections.

CLM 2.15.0

New Features

- Borrow by product is now available.

Bugfixes

- Fixed issues with acquiring features on low-spec machine configurations.

CLM 2.14.0

Improvements

- OpenSSL upgraded to version 3.
- Automatic cleaning of broken or invalid EIDs on the backend server.
- Improved error messaging for incompatible license server versions.

CLM 2.13.0

New Features

- Filtering of non-borrowable EIDs in the borrowing window.
- Popup on hover for long product descriptions.

CLM 2.12.0

Bugfixes

- Fixed checkout duration inaccuracies in usage analytics.

CLM 2.11.0

Improvements

- FlexNet Publisher upgraded to version 11.19.2.0.

New Features

- Licenses displayed with product descriptions in main and borrowing views.

CLM 2.10.0

New Features

- CSV export for license server usage analytics can now be scoped freely by selecting start and end date. Default time frame will be set to the past month.
- CSV export for license server usage analytics now also exports the duration of a checkout/checkin pair.

Bugfixes

- Fixed an issue where the borrow window would not reset to initial state when closing and reopening it.

- Fixed an issue where manually updating a license via context menu could lead to old products not being deleted correctly.
- Fixed an issue where an offline activated license would have missing data fields in myWorld.
- Fixed an issue where the application could not connect to the license service displaying a red error banner. The issue occurred in certain network configurations with multiple network adapters installed on the system.
- Fixed executables missing signing.

CLM 2.9.0

New Features

- Added CSV export button for license server usage analytics logging which can be found in the 'Settings' tab with 'Advanced options' enabled.
- Click on 'Export Usage Analytics' to export the CSV with the logged events from the license server.
- **Note**: This functionality is only available for floating licenses and shown if the license server logging is enabled on the license server computer, in:
  `C:\\Program Files (x86)\\Common Files\\Leica Geosystems\\License-Server\\lgs.opt`
  by setting `ENABLE_DB_HISTORY 1`.
  By default, it is not enabled.

Bugfixes

- Fixed an issue which would lead to the application consuming an increased amount of RAM.

CLM 2.8.0

Improvements

- Added automatic update check and notification.
- The application will now check for CLM updates automatically on startup. If an update is found, a notification is displayed allowing the user to directly download the new version or dismiss or snooze the notification.
- Upon successful download, the notification allows the user to directly close CLM and install the new version, if desired.
- The automatic update check can be disabled in the ‘Settings’ tab, if necessary. Furthermore, the general notification settings from Windows are respected as with features like Focus Assist.
- **Note**: A downloaded update installer will be located in the user's ‘Downloads’ directory.

CLM 2.7.0

Improvements

- Added new Help tab with animated how-to's for most common operations (activation, borrowing, etc.).
- Added saving of the last successfully connected borrowing remote server in-between starts of the application.
- Added expand all & collapse all right-click menu entries.
- Added possibility to search licenses by type (floating or node-locked).
- Improved describing help text in a few dialogs.

Bugfixes

- Fixed an issue where a borrowing from a remote server whose name is not resolvable could lead to the borrowed license not being returnable.
- Fixed an issue where the main app and the Activation Wizard could not connect to the license server if a 3rd party licensing system is running on the default 27008 port and the Leica license server was configured to an alternate port.
- Fixed missing expiration date in error message when trying to activate an expired EID.
- Fixed an issue where an unsuccessful borrowing error message would persist after closing and reopening the borrow dialog.

CLM 2.6.2

Bugfixes

- Fixed text sizing issue for French translation.
- Fixed rare issue which could lead to application closing itself.
- Fixed typo in a certain error message.

CLM 2.6.1

Improvements

- Improved the most frequent errors with user-friendly and actionable messages.

Bugfixes

- Fixed: Some error messages for the offline activation process would appear too small on the screen.
- Fixed: Application possibly not being able to finish the listing of a remote server for borrowing in case multiple listings were requested in quick succession.

- Fixed: The Activation Wizard would not select the language correctly when started by another application.
- Improved the most frequent checkout and connection logs with support-friendly and actionable messages.
- Fixed text sizing issue for French translation.
- Fixed rare issue which could lead to application closing itself.
- Fixed typo in a certain error message.

CLM 2.6.0

Improvements

- Improved the borrowing performance considerably. Now the product query takes 1–2 seconds. This can vary based on network infrastructure.
- The text will automatically shrink to fit the allocated cell space and be completely visible. Before this, in some corner cases the text was not completely visible.
- The right-click context menu is displayed only when the mass selection is not used.
- Node-Locked licenses are now shown in case the floating license server is not available.

Bugfixes

- Fixed the situation where adding a line item to a node-locked license was not showing an update notification.

CLM 2.5.2

Improvements

- Added the ability to manually check an EID for updates from the backend license service (e.g., renewal of a license).
- The new functionality is accessible via the right-click context menu of a single EID or via the group selection “Update” button.
- Before this, the “Update” button was activated only after an automatic background check at CLM start-up.

Bugfixes

- Fixed an issue where the initial loading of licenses would occasionally not finish.
- Fixed an issue where the application would behave incorrectly when closing it immediately after startup.

CLM 2.5.1

Improvements

- Improved application startup performance.

Licensing Service Component

- Fixed an issue in the licensing service component, which could lead to intermittent hangs or complete lockup of the service.
- Fixed an issue in the licensing service component, which could lead to the service restarting unexpectedly.

Bugfixes

- Fixed a potential issue where the update notification for a license would not be triggered.

CLM 2.5.0

Improvements

- **Component Upgrade**: The FlexNet Publisher (FNP) component was upgraded to version 11.18.2.0.

Bugfixes

- Fixed a corner case where a feature remained wrongly checked in after the network connection to the license server was disrupted, and checked out again when the network connection was restored. This ultimately led to more features being checked out by the same user.
- Fixed missing licensing server version display in the About page.
- Fixed application not opening correctly when CLM services are not installed.

CLM 2.4.6

- Bugfixes
  - Fixed an issue which could lead to the application shutting down immediately after startup.

CLM 2.4.5

- **Improvements**
  - **Custom license server port**: Added the capability for the GUI to work with a custom license server port in the 27000–27010 range. Before this, if a port different than 27008 (default) was used for the license server, there was no data displayed in the GUI.

CLM 2.4.4

- Bugfixes

- Fixed: possible lockup of the application in a corner case when closing immediately after startup.

CLM 2.4.3

- Bugfixes
  - Fixed: wrong display of total features in use when a product is borrowed by multiple systems.

CLM 2.4.2

- **Bugfixes**:
  - Fixed icons missing when custom font loading is blocked – seen on AWS VMs with restricted font loading.
  - Fixed high CPU usage on some VM configurations.
  - Fixed possible crash on some VM configurations (VirtualBox).
- **Improvements:**
  - Show license as inactive if start date in the future.

CLM 2.4.1

- **Bugfixes**:
  - Fixed a possible crash of the license server when the service does not have the rights to write the log file.

CLM 2.4.0

- **Bugfixes**:
  - Fixed an issue where the Windows screen scaling setting was applied incorrectly inside the application for scaling levels other than 100% and 200%.
- **Improvements**:
  - Updated to the latest Qt UI framework (5.15).
  - Borrowing: Introduced an error indicator for invalid characters in the server address (e.g., the @-sign, which was mandatory in CLM 1.8 and earlier).
  - Borrowing from localhost and localhost IPs is no longer supported (as it is not a relevant use case).
  - Flexnet Licensing Server service: Added an error indicator when the service is not operational.

- Installer: Resolved an issue that caused installation to fail immediately when WMI returned an error.
- Installer: On 32-bit Windows, the shortcut to CLM 1.8 will now be installed by default in the Windows Start menu.

CLM 2.3.3

- **Bugfixes**:
  - Restored functionality on Windows 7.
  - Improved error messages for borrowing failures.

CLM 2.3.2

- **Bugfixes**:
  - Sorting the feature list by “In use/Total” results in the wrong user being displayed.
  - If an existing product was ordered again in the same EID the update of that EID failed.
  - Error in counting users during expand of feature line item.
  - German and Italian dates where displayed wrongly.
- **Improvements**:
  - Introduced a notification that alerts users when querying an empty remote server for borrowable items, clearly indicating that no items are available.
  - Implemented a dialog box to display error messages in cases where an EID update fails to complete successfully.

CLM 2.3.1

- **Bugfixes**:
  - Resolved offline activation error: the “File could not be identified” error when uploading the start file

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CLM 2.3.0

- **Improvements**:
  - FlexNet Publisher updated to version 11.17.1.0.
  - The proxy functionality has been introduced as an advanced option within the Settings tab. Users can now perform activation and return operations seamlessly through a proxy.

CLM 2.2.0

- **New features**:

- Enhanced borrowing features.

- Bugfixes:
  - Installer: Don’t delete the product entry from *Add or Remove Programs* when an uninstall rolls back.

    Installer: Upgrade is possible while a node locked application is using the licensing services.

CLM 2.4.0

- **Bugfixes**:
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