SCENE Version 2025.2
Release Notes
October 2025

FARO is pleased to announce the release of SCENE and SCENE LT version 2025.2.

We would like to thank customers who provided valuable product input.
This release includes feature enhancements that are designed to increase productivity, mobility and ease-of-use.

Release Notes

New Features

- SC-9823: Point clouds (scan and project) now support back-face culling, so that surfaces are hidden when looking at them from the backside. This feature is optional and does not work for point clouds created in older SCENE versions. However, you can make it work in projects created with older SCENE versions by deleting and then recreating the scan point clouds and the project point cloud.
- SC-9075: You can now create registration areas in scans, for example in mobile scans based on a temporal selection, or in any scan based on a selection. These registration areas can be used to register large scans with other scans only using the points in the registration areas.

Improvements

- SC-10035: Scan point cloud building is now parallelized.
- SC-9935: Project saving after scan data cleaning is now parallelized. This makes saving after cleaning two to three times faster than before.
- SC-10015: .e57 metadata
    - .e57 exports from FARO scans now always contain meta data like vendor, scanner model etc.
    - .e57 imports also store the meta data in the .fls scan. This means that a re-export as .e57 contains the same data as the imported data.
- SC-10044: .e57 exports have been simplified and improved to include panorama images in the scans. The pose of the panorama images has been fixed and now corresponds to the .e57 specification.
- SC-10031: You can now disable all clipping boxes via the context menu.
- SC-10064: The checkerboard detection accuracy has been improved.
- SC-10021: Orbis Flash Scan accuracy and quality has been slightly improved.
- SC-10049: Rendering of mobile scans containing a lot of images is faster than before
- Blink processing Improvements:
    - Specific improvements at project point cloud creation for Blink scans.
    - Quality improvement for edges.
    - Color improvements: brighter, more contrast, more realistic, chromatic aberration corrections.

Bug Fixes

The following issues have been fixed:

- SC-9918: An error occurred when cleaning in a partial Focus scan. This would happen if scans were not scanned 360 degrees.
- SC-9958: Users needed their own workspace or needed a workspace admin role in Sphere XG to be able to synchronize projects with Sphere XG. Now, only the project editor role for the project is required.
- SC-9840: The Sphere XG status tile on the Project Details page showed *No Internet connection* if an inconsistent internal connection state occurred.
- SC-9939: On project synchronization with Sphere XG, the project point cloud was always uploaded. Now, it is only uploaded if it was changed.
- SC-9950: Robustness of the SCENE to Sphere XG upload and synchronization when uploading from a network hard drive has been improved.
- SC-9826: After logging in with an invalid user account, the SCENE UI did not allow logging out.
- SC-9969: SCENE sometimes crashed when creating connections between scans in the registration view.
- SC-10091: When an Inspect Connection view was already open, trying to open another Inspect Connection view of the same connection did nothing.
- SC-10038: Occasionally, SCENE crashed when running an automatic cloud-to cloud-registration.
- SC-10027: If you had opened panorama images of an Orbis mobile scan in a viewer before saving, this sometimes led to missing and invalid panorama images.
- SC-10011: Clicking a scan point size button in the 3D view had no effect.
- SC-10058: Objects size in quick views was not adapted based on the distance/depth.
- SC-10010: The Orthophoto app did not respect current 3D view settings, for example Clear View.
- Occasionally and only on some computers SCENE crashed when opening a correspondence view
- SC-10022: Stitching of Orbis images failed with Nvidia RTX series 5 graphic cards.
- SC-10038 When running georeferencing for Orbis scans during the processing, the unused Stop&Go points were imported to wrong positions. In SCENE 2025.2 these points will not be imported. This import will be made available in future SCENE versions.
- SC-10039: For some large clusters or projects the post-registration scan optimization returned error 15 while saving.
- SC-10082: In projects with large coordinates, objects in the 3D view were jumping when moving the camera around them.

Further Changes

- SC-10059: SCENE now automatically sets the right Windows graphic card settings on starting. These changes are not applied to SCENE if you run it for the first time on a computer. You need to close and restart SCENE.

Known Issues

- You cannot activate a license from SCENE. Please use the FARO License Manager following these steps: LINK

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Improvements

- SC-9933: For FARO Blink projects: when selecting processing at project transfer, if the automatic registration is run and is successful, the project point cloud is automatically created.

Bug Fixes

The following issues have been fixed:

- SC-9922: Orbis scan point clouds disappeared from the 3D view when cleaning points in the following case: Process RAW scan → Clean → Save → Close Project → Open Project → Clean → Save.
- SC-9913: SCENE did not respond when exporting unstructured scans as RCS.
- SC-8412: Selections and measurements with large coordinates were inaccurate. Fix limitation: The temporary line for a measurement is displayed with an offset until the measurement is finalized (**Enter** is pressed). After finalization, the measurement line is correct.
- SC-982: OpenGL changes to reduce certain crashes while navigating thought data and interacting with objects in 3D and spherical views.
- SC-9832: SCENE occasionally crashed when closing 3D views.
- SC-9834: The scan managers of Orbis clusters were unlocked when uploaded to Sphere XG.
- SC-9926: The time filter of SLAM scans was not available if SCENE language was set to Japanese.

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New Features

- SC-7805: You can now synchronize the SCENE registration with Sphere XG. This means that registrations done in SCENE are uploaded to Sphere XG and registrations done in Sphere XG are downloaded to SCENE.
- SC-9594: SCENE can now visualize the timepoint at which a scan point was captured in an Orbis mobile scan. It is also possible to remove temporal sections of mobile scans.

Improvements

- SC-8170: Exporting a project to the .rcp format did not utilize the resources available in the best way possible. Now, users can expect the intelligent use of all CPU cores and RAM to complete the process in (much) faster times.
- ES-713: Wiping the project history keeps information of previous connections to Sphere XG. This improves performance if you want to synchronize the project with Sphere XG again later.

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Bug Fixes

The following issues have been fixed:

- SC-9770: Exporting large Point Cloud Projects (PPCs) to .rcs format using the ReCap SDK could cause excessive RAM usage. In some cases, this led to significant slowdowns or caused exports to fail entirely due to memory exhaustion. SCENE now anticipates high memory usage within the SDK and applies a more robust strategy when exporting to this format.
- SC-9759: Uploading a very large project to Sphere XG failed and returned an error. Now, SCENE refreshes the requested authentication tokens more frequently to make sure that time-consuming uploads will not run into authentication problems.
- SC-9797: Sometimes, the SLAM Scanner processing options were not displayed the first time the *Configure Processing* page was opened.
- SC-9358: Sometimes Sphere XG metadata was not updated/shown in the SCENE project dashboard.
- SC-9814: Occasionally, Blink scan names were overwritten during batched processing. Now, the display names will remain consistent.
- SC-9617: On rare occasions, the background color of the 3D view flickered.
- SC-9776: Fixed visualization of external references with large coordinates in 3d views. Flickering will no longer be observed, regardless of coordinate size.
- SC-9815: The cloud calibration for Blink scans was not downloaded if the user was logged into the .com Sphere XG environment.
- SC-9095: In some rare cases, SCENE crashed unexpectedly.
- SC-8492: SCENE sometimes crashed when HDR panorama pictures were applied.
- SC-9790: Saving after deleting points in a 3D view sometimes caused SCENE to crash.

Further Changes

- SC-9073/SC-9074: The processing settings for Freestyle and SLAM scanners are now fully migrated to the tab design in both, the Configure Processing page and the Settings page.
- SC-9807: The SCENE LT installer does no longer install InTouch and the license manager.

Release Version 2025.0.2

Improvements

- ELSFW-1616/1653: The color quality of Blink panorama images has been improved by better tone mapping and correction for color edges.
- ELSF-1675: The 3D data quality of Blink 3D data quality has been improved by adapted smoothing parameters.

Bug Fixes

The following issues have been fixed:

- SC-9210: Downloads or synchronizations of Sphere XG projects failed due to error SXG-3.
- SC-9582: Exporting a project to a location with a naming conflict resulted in growing suffixes, i.e. Name_0, Name_0_1, Name_0_1_2.
- SC-9612: The active sphere radii processing options were ignored when Focus scans were processed and the option to find spheres was enabled.
- SC-9620: The synchronization of a large project containing thousands of scans with Sphere XG failed after the scans were uploaded. This was caused by a backend timeout.

Further Changes

- SC-9496: The updated user manuals are now directly available in the installers.
- SC-9566: Updated the Autodesk ReCap SDK from version 24.0.1.3 to 26.0.2.5.

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Bug Fixes

The following issues have been fixed:

- SC-9109: If you opened a project created in SCENE versions 2024.x and older in SCENE 2025.0 in a non-English UI language, all clusters were displayed with the same name.
- SC-9208: A full download of a project from Sphere XG sometimes caused SCENE to crash.
- SC-9211: Synchronization errors occurred for Blink projects after the following processing steps:
- Upload from Stream to Sphere XG.
- Processing and registration in Sphere XG.
- Download to SCENE.
- Registration changes, clean point clouds, saving.
- SC-9216: Fixed a slow memory leak. This happened only under specific configuration circumstances.

Release Version 2025.0

New Features

- The new FARO Blink scanner is fully supported in SCENE 2025.0.
- New colorizer algorithm for SLAM Scanners:
  - The colorization has the same quality as *Colorize by distance* for high resolution images.
  - The time it takes to colorize a scan is on average 1.5x times the capture time.
  - This colorization procedure is up to 25 times faster than *Colorize by distance* with high resolution images.
  - 90% of the points in the scan are colorized.
  - This algorithm is not sensitive to the number of points to be colorized. Running a thinning filter is not required.
- SC-8403: Rigid and non-rigid georeferencing has been added to the SLAM Scanner options. This allows to automatically register SLAM scans to references (Georeference). This transformation uses the reference points captured during the scanning phase with FARO Stream or by using the Stop&Go method.
- SC-8433: Trajectories created by the FARO Orbis scanner can be exported as text files in .traj format.
- SC-8550: The processing options have been restructured according to the different scanners (FARO scanners, generic option for third-party scanners) and registration.
- SC-8361: Now, high-resolution images can be used in the quick views. This is the default for FARO Blink scans and for FARO Focus scans if you enable the *Create Full Resolution Panoramic Images* option at processing in SCENE.
- SC-8578: The FARO Focus colorization has been re-structured. Furthermore, a new option to compute full-resolution panorama images at processing has been added.
- SC-8555: Scan point clouds and project point cloud support color and intensity:
  - You can now change between color and intensity in 3D views.
  - When a project point cloud is exported as .las, .e57 or .rcs (ReCap), color and intensity values are included.

Improvements

- SC-8727: The refine connections procedure has been improved to prevent false registration results and to enable refining connections from scans that were not pre-registered.
- SC-8255: The *SLAM Scanner* settings page has been restructured and adapted.
- SC-8432: When exporting panoramic images of a scan, cluster or project, the position and orientation of these images are automatically exported to a .txt file in the same folder as the images.
- The FARO Scanners - Focus, Orbis and Blink - are now shown with different symbols in the 3D view.
- SC-8609: A progress bar informs users about the status of a polygon 3D selection.
- SC-8378: SCENE automatically creates scan point clouds for processed scans when opening 3D views. This can be deactivated on the *Views* settings page. It is recommended to deactivate this setting when working with light projects downloaded from Sphere XG.
- SC-8090: When connected to a Sphere XG workspace, project tiles in the project selector page are downloaded much faster than before.
- SC-8138: When SCENE is downloading data from Sphere XG, the Sphere XG avatar in the top right corner now shows a spinning wheel.

Bug Fixes

The following issues have been fixed:

- SC-8347: If you closed a project while a SLAM processing was still running, the job was still shown as *In Progress* in the *SLAM Processing Activity* form. The same behavior occurred when a second SLAM processing was started for another project. Then, both processing jobs were shown as *In Progress*.
- SC-8431: An error message with no information value for the user was shown in the *SLAM Processing Activity* form.
- SC-8520: Some texts on the *SLAM Scanner* settings page and in the *SLAM Processing Activity* form were not translated into FARO's core languages.
- SC-8490: Images contained in a .geoslam file could not be opened before saving or opening a scan after running a SLAM processing.
- SC-9087: Image pose was wrong when exporting Orbis Flash scans as .e57.
- SC-9084: Occasionally, when processing multiple SLAM scans, processing failed during filtering.
- SC-9021: When connected to a Sphere XG workspace with a lot of projects, SCENE sometimes showed *No Projects* while refreshing the view. Now, a spinning wheel is displayed until the projects are shown.
- SC-8413: If you added a .png file with transparent background as watermark for a video of view points with the Video Pro app, the transparency setting of the .png file was ignored and the watermark was displayed with a black frame.
- SC-8494: After importing an .e57 file with intensity only into SCENE and then uploading it to Sphere XG, the panorama images were completely white in the Sphere XG Viewer.
- SC-9017: Sometimes projects with more than 100 clusters could not be uploaded to Sphere XG.
- SC-8543: At project transfer, the target folder could be changed but was then ignored.
- SC-8509: An unknown error (60011) sometimes occurred for a subset of a project's scans during processing.
- SC-8589: Occasionally, importing large .e57 files failed.

Further Changes

- SC-8273: Starting from this version, SCENE will enable reprocessing of already processed mobile scans with a limited functionality scope. The reprocessing will always start with the scan after the SLAM processing and not with the current state of the scan. Until a new version of reprocessing is launched, this first version can only be used in Georeferencing and to reprocess when the SLAM processing result is not satisfactory.

Known issues

- When processing scans, the *Settings* page may wrongly show the settings from the last scanner type that you were processing. Clicking any of the tabs shows the right settings.

Further Information

Online Help and Video Tutorials

FARO's Knowledge Base provides a variety of online tutorials for SCENE software. Access them from the Help menu within SCENE or with the following link: knowledge.faro.com/Software/FARO_SCENE/SCENE

Visit the FARO Customer Service area on the Web at www.faro.com to search our technical support database, which is available 24 hours a day, 7 days a week. The link to the technical support database is also accessible from within SCENE.

Version History and Release Notes/

The full version history and past release notes can be found on the FARO Knowledge Base

Computer System Recommendations

A detailed list of computer system requirements and recommendations can be found in the SCENE user manual.

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