

Release Notes

2026

1. v2026.09.03

1. [Enhancement] Allow users to save their [Build CMZ settings](#) and load them in to automatically fill the fields
2. [Enhancement] Added a preview parameter to [-BuildCMZ](#) offering users a chance to approve a generated preview of results prior to starting execution
3. [Enhancement] Made it possible for users to change the names displayed on [plot legends](#)
4. [Enhancement] Made it possible to update the size of [plot legends](#)
5. [Enhancement] Added an import settings option to the [merge dialog](#), allowing users to save and re-use previous settings
6. [Enhancement] Moved the widget to add and remove plot rows and columns from the options dialog to directly on the [Explore Page](#)
7. [Bug Fix] Fixed status messages to properly display the current CMZ being processed
8. [Bug Fix] Fixed a bug causing Sift to crash when a workspace was cleared on the PC Reconstruction page

2. v2026.07.20

1. [New Feature] Created a graphical user interface dialog for [Directory Watchers](#), allowing users to create and manage watchers without the command line
2. [Bug Fix] Fixed a bug preventing SPE and Mahalanobis Distance from being exported properly from a loaded workspace

3. v2026.07.09

1. [Enhancement] Added the option to [export](#) outlier detection settings for SPE and Mahalanobis distance, providing more context to the test run and making it easier to recreate.
2. [Bug Fix] Fixed a bug causing Mahalanobis Distance to be exported incorrectly from the command line

4. v2026.06.24

1. [Enhancement] Made it possible to view the contents of a [Visual3D pipeline script](#), and open it in an editor from within Sift
2. [Bug Fix] Fixed a bug causing the previously loaded library to be loaded instead of the one used for the .I3D when loading in a project.
3. [Bug Fix] Fixed a bug causing Sift to crash when an SPM or GLM were created with the same name as an existing one

5. v2026.06.17

1. [Enhancement] Added an override so Sift will no longer be maximized when Windows wakes from a sleep state while Sift was minimized on some systems.
2. [Bug Fix] Fixed a bug causing numeric tags to be ignored when used in query refinements
3. [Bug Fix] Fixed a bug causing the displayed tab to reset every time a new query is selected in the build query dialog

6. v2026.06.08

1. [Enhancement] Added reporting for [Visual3D](#) pipelines run from Sift
2. [Enhancement] Updated [Curve Registration](#) so it can eliminate phase variance across separate groups
3. [Enhancement] Improved SPM reporting when traces are eliminated due to instances of DATA_NOT_FOUND while creating a [GLM](#)

7. v2026.05.28

1. [New Feature] Added an option to the [general options dialog](#) to produce a warning when a new query is calculated with less workspaces than other queries
2. [Feature Enhancement] Added a section to the [groups widget](#) to display the number of workspaces contained within each group
3. [Feature Enhancement] Added the option to resize [legends](#) for all plot types on the explore and analyze page
4. [Feature Enhancement] Added the option to query CMZ global values from the [query builder](#)
5. [Bug Fix] Fixed a bug that made it impossible to save query definitions when no query is selected in the query builder

8. v2026.04.30

1. [Enhancement] Added ability to delete PCAs from the [Analyze page](#) as well as the command line
2. [Enhancement] Added the ability to switch the active PCA from the command line
3. [Enhancement] Modified UI elements on the [Load Page](#) and [PCA Dialog](#) to improve readability in dark mode
4. [Bug Fix] Fixed a bug making it impossible to save CMZs in Visual3D if they were created in Sift

9. v2026.04.16

1. [New Feature] Created new exclusion options (excluding by trial count and excluding by trace length) which can be evoked in the command line
2. [Feature Enhancement] Added the ability to [resize](#) the Groups and Workspaces widget on the Analysis page
3. [Bug Fix] Fixed a bug causing Sift to crash when a non-existing file path was used when saving a normal database file
4. [Bug Fix] Fixed a bug causing load data feature to behave unexpectedly if “.c3d” or “*” was used in a model template file mask
5. [Bug Fix] Disabled the ability to choose data that is not discrete or continuous in query builder

10. v2026.03.05

1. [Feature Enhancement] Made it possible to [add multiple model template files](#) when running assign model from the load data dialog and command line
2. [Bug Fix] Fixed a bug causing Sift to crash due to an unused check box within the export dialog when loading saved settings
3. [Bug Fix] Fixed a bug within the update CMZ dialog making it impossible to switch back to “Only exclude individual traces” when adding exclude events after switching to any other option.
4. [Bug Fix] Added missing text export types to signal time plots (JSON, XML)

11. v2026.03.05

1. [New Feature] Added the ability to undo the last [exclusion](#) or re-inclusion by pressing **Ctrl+Z**
2. [Enhancement] Modified text [exports](#)
3. [Bug Fix] Fixed a bug within the update CMZ dialog making it impossible to switch back to “Only exclude individual traces” when adding exclude events after switching to any other option.

12. v2026.02.13

1. [Enhancement] Released the new [Load Data](#) feature which is available on the Load Page and through the console application. Load Data brings together the legacy [Load C3D](#)

features' Build CMZ, Theia3D Builder, and Fujitsu Builder tabs and extends users' ability to add metadata to their motion capture files and automate file tagging.

2. [Bug Fix] Fixed a bug where calculating all queries through the Query Builder Dialog and then asking to remove all uncomputed queries could cause Sift to crash.

13. v2026.01.26

1. [New Feature] It is now possible to export the Explore Page plots to PDF from the [context menu](#).
2. [New Feature] Added a [processing log](#) to the help menu that will aid in debugging.
3. [Enhancement] Set the [animation window](#)'s floor to ignore changes to the lab coordinate system, allowing users to correct any misaligned models to match the animation widget.
4. [Enhancement] Set changes to the Lab Coordinate System within the [animation settings dialog](#) to persist between instances of the application

2025

1. v2025.12.17

1. [New Feature] Added an error messaging and logging for circumstances where Sift crashes, enabling more targeted troubleshooting.
2. [Enhancement] Added the ability to delete previously created SPMs and GLMs.
3. [Enhancement] Added the ability to switch between created SPMs and GLMs.
4. [Enhancement] Increased the precision of alpha values that users can specify for SPM tests to accomodate corrections like the Bonferroni correction.

2. v2025.12.10

1. [Enhancement] Added the JSON and XML export formats to the console application's "export to text" family of commands.
2. [Bug Fix] Fixed a bug where the expiration date of some Evaluation licenses was evaluated incorrectly, leading to shortened evaluation periods.
3. [Bug Fix] Fixed a bug where a trace's details would remain visible on the Explore page under certain conditions when unselected.

3. v2025.12.02

1. [New Feature] Added the option to export plotted data to text via an Explore page plot's context menu.
2. [Enhancement] Modified the Y-axis range for the GLM Residuals Plot to ensure that values are centered even when all traces are at zero.
3. [Enhancement] A warning is now displayed when an SPM is calculated and no results are produced.
4. [Enhancement] Users can now double click the "Load Library" button to automatically load the previously loaded library.
5. [Enhancement] Added the option to set the location of Visual3D's executable so the open file function on plotted data no longer depends on the default install location.
6. [Enhancement] Added the option to export data to JSON and XML formats when exporting to text.
7. [Bug Fix] Fixed a bug where ROTATION signals could not be visualized when the corresponding query definition was read in from a .q3d file.
8. [Bug Fix] Fixed a bug where, for the one-sample, two-sample, and paired t-tests, the conclusion "reject the null hypothesis" would be drawn incorrectly given the p-value calculated, the degrees of freedom for the test, and the significance level chosen
9. [Bug Fix] Fixed a bug causing Sift to crash when a paired SPM test was run on a GLM with no variance.

4. v2025.11.12

1. [New Feature] Added the ability to call Theia3D from the command line and pass a settings file, allowing for automated batch processing
 2. [Enhancement] Added the option to export to CSV in the export dialog
 3. [Enhancement] Redesigned the export dialog, settings file will always be displayed, and previews will be shown in a separate window
 4. [Enhancement] Added normal database to the Sift command line
 5. [Enhancement] Added gait analysis tools (LGGA, GPS, and GDI) to the command line
 6. [Enhancement] Added the option to compare traces to whole dataset with Dynamic Time Warping on the command line
 7. [Enhancement] Added summary statistics to the command line
 8. [Bug Fix] Fixed a bug causing Sift to crash when loading in a second project
 9. [Bug Fix] Fixed a bug causing Sift to crash when saving after re-calculating queries in a loaded project with registered curves
 10. [Bug Fix] Fixed a bug causing summary metrics to produce incorrect results when selecting value at event for anything other than the first event within a sequence.
5. v2025.09.23
1. [Enhancement] The Summary Metrics feature is now available through the console application.
 2. [Enhancement] Improved formatting for console application's help commands.
 3. [Bug Fix] In some cases auto-populating queries while grouping left and right signals would cause Sift to crash.
 4. [Bug Fix] Fixed a bug where processing scripts could not be added when building CMZ files from Fujitsu .bvh files.
6. v2025.09.03
1. [Bug Fix] Fixed bug with plot updates when displaying non-normalized waveforms.
7. v2025.08.28
1. [Enhancement] Statistical test results can now be exported to text file and saved to the I3D project file.
 2. [Enhancement] Improved reporting when queries do not match any data in the loaded library.
 3. [Enhancement] UI updates to clarify that workspace and group means cannot be calculated for non-normalized waveforms.
 4. [Enhancement] Sift now creates its own Plug-ins folder for the Visual3D Engine during installation if Visual3D is not already installed on a computer.
 5. [Bug Fix] Console application did not display numerical parameters properly; missing parameters are now reported as [NO VALUE] rather than NULL.
8. v2025.07.23
1. [New Feature] Added drag-and-drop functionality to import queried data directly from Sift into Jiku's Power1D software. This same feature allows drag-and-drop into any application that accepts CSV files in this manner.
 2. [New Feature] Added Summary Statistics feature, allowing users to compute One-Sample, Two-Sample, and Paired T-Tests for queried metric groups.
 3. [Enhancement] The QA Using PCA dialogs now reflect the active PCA results being examined.
 4. [Enhancement] The Animation and Video dialogs now both allow excluded traces to be selected and animated. Excluded traces are clearly indicated in the drop down menus.
9. v2025.06.26
1. [Enhancement] Users can now be notified via a system tray icon when a Directory Watcher is triggered.

2. [Enhancement] Directory Watchers now save a log of processing results whenever a Visual3D pipeline script is run.
3. [Enhancement] Users can now choose whether or not Directory Watchers will be triggered on the removal of a file from a watched directory.
4. [Enhancement] UI updates to the Load Page to display the loaded library path, the total number of CMZs loaded, and the total number of C3Ds files loaded.
5. [Bug Fix] Fixed a bug that caused Sift to crash when loading some legacy workspaces via the command line.

10. v2025.06.03

1. [Enhancement] Added a Ctrl-X shortcut for Explore page plots to exclude highlighted traces.
2. [Enhancement] Users are now asked if they want to save their project file on application close if any queries have been computed.
3. [Bug Fix] Normalization information of queries now properly saved in .q3d files.
4. [Bug Fix] Refactored interactions with Explore page plots to improve performance and reliability. Users can now:
 1. Right-Click for the Context menu
 2. Single Left Click to select data using a "rubber band" box
 3. Shift + Left Click: Add traces to the current selection
 4. Ctrl + Left Click: Multi-select plots
 5. Alt + Left Click: Highlight all traces
 6. Double Left Click: Scale graph to data
 7. Mouse Scroll Wheel: Zoom In/Out.
5. [Bug Fix] Resolved bug where queries could not be created when legacy .cmo files were loaded in the library.
6. [Bug Fix] Fixed formatting error in the Command Line interface's output for directory watcher lists.
7. [Bug Fix] Resolved bug where the command line would miss erroneous parameters if they were passed as default parameters.

11. v2025.04.22

1. [Enhancement] Users can now run Visual3D pipeline scripts through the engine without having a loaded library.
2. [Enhancement] Sift's command line interface now allows exporting figures throughout the application with the addition of the ExportPlotSignalTime, ExportPlotMetric, ExportPlotPairSignal, ExportPlotPairMetric, ExportPlotVarianceExplained, ExportPlotWorkspaceScores, ExportPlotGroupScores, ExportPlotReconstruction, ExportPlotExtreme, ExportPlotSPM, ExportPlotResiduals, and ExportPlotB commands.
3. [Enhancement] Improved reporting during license activation.

12. v2025.03.12

1. [Enhancement] Overhauled Sift's command line interface to improve reporting and readability.
2. [Enhancement] Normal database files now save to a .sift extension to improve usability within the application.

13. v2025.02.13

1. [New Feature] Added the ability to re-order queries on the explore page and within the query builder.
2. [Enhancement] Improved compatibility, allowing Sift to be run on Apple Parallels.
3. [Enhancement] Improved logging of V3D pipelines ran from the Sift Command Line.
4. [Bug fix] Fixed a bug causing V3D Default folders to be inaccessible from the V3D engine when run from Sift.

14. v2025.02.04

1. [New Feature] Individual Visual3D pipeline commands can now be passed directly to Sift via the command line interface.
2. [Enhancement] Sift's console application and command line interface now accept forward slashes as delimiters, in addition to dashes.
3. [Enhancement] Metric plots now show information for selected traces on the top layer and above the selected bar, increasing readability.
4. [Bug fix] Fixed a bug where commands passed on launch that contained a string parameter starting with a dash to fail.
5. [Bug fix] Fixed a bug where Mahalanobis Distance exports failed from the command line interface.
6. [Bug fix] Fixed a bug where Sift's RunV3D command would fail from the command line interface.
7. [Bug fix] Fixed a bug where selecting the "Yes to All" option for recalculating queries did not behave as intended.
8. [Bug fix] Fixed a bug where traces negated by a query were returned incorrectly.

15. v2025.01.08

1. [New Feature] Users can now compute summary metrics of loaded groups and save them to the respective workspace. Summary metrics are automatically queried and saved as a group in Sift.
2. [Enhancement] Statistical parametric mapping now allows users to perform one-sample and paired t-tests, and ANOVA tests. One vs. two-tailed statistical inferencing is also now available.
3. [Enhancement] The console application's interface has been refined.
4. [Enhancement] The animation widget now displays model segments in line with Visual3D's animation feature.
5. [Enhancement] A UI hint for resize mechanism is now provided to the user when hovering over the widget resizing handle.
6. [Bug fix] Fixed an error where workspace means would not properly calculate for the specific case where a single C3D file contained both included and excluded traces.
7. [Bug fix] Fixed a bug where Directory Watchers could be deleted without being disabled.
8. [Bug fix] Several minor fixes to ensure that plotting styles are consistently and correctly applied across all plot types in the Explore Page.
9. [Bug fix] Ensured that regular CMZ libraries cannot be loaded as a Normal Database file, which would result in a crash.

2024

1. v2024.11.07

1. [New Feature] Allow users to set one or more directories to be "watched" when a file is added or removed from a watched directory a list of v3s pipelines and or bat scripts will be executed
2. [New Feature] Gait Deviation Index (GDI) added to Gait Score suite.
3. [Enhancement] Added improvements in GPS usability.
4. [Bug Fix] Fixed a bug where running the V3D Engine with a normal database loaded caused loaded files to be corrupted.

2. v2024.10.11

1. [New Feature] Users can automatically generate .cmz workspaces for .bvh files output by Fujitsu's Human Motion Analytics technology through the CMZ builder.

2. [Enhancement] Sift's command line console application can now be used as a drop-in replacement for Auto3D.
 3. [Enhancement] Sift's command line console application now allows aliasing as a command.
 4. [Enhancement] Improved GPS dialog and Normal Database connection.
 5. [Bug Fix] Plot highlighting bug fixes throughout application.
 6. [Bug Fix] Duplicating queries no longer adds extra conditions.
3. v2024.09.26
1. [Enhancement] Users can now leverage the Sift Normal database feature to generate a reference dataset for Gait Profile Score (GPS)
 2. [Enhancement] Application wide changes to speed up analysis 50% decrease in response time across multiple pages.
 3. [Enhancement] Queries with different data rates can be matched with each other if they represent the same event sequence.
 4. [Enhancement] Updated Active Plots to ensure they are more distinguishable from other plots
 5. [Bug Fix] Fixed bug preventing group data styles from being saved with project
 6. [Bug Fix] Fixed bug where plot axes could not be edited.
 7. [Bug Fix] Fixed bug where SPM module crashed if loaded with data that all included unknown data.
 8. [Bug Fix] Fixed bug causing plot bounds to be slightly too small.
4. v2024.08.21
1. [Enhancement] Allow Sift to be run on command line.
 2. [Enhancement] Introduced Normal Database file, allowing for quick summaries and comparisons from large control groups.
 3. [Bug Fix] Fixed bug where events captured at different rates was not recognized as the same event.
5. v2024.07.15
1. [Bug Fix] Corrected an issue with licensing where a failure to activate on the first attempt would prevent subsequent activation attempts.
 2. [Bug Fix] Resolved a couple of issues related to the OpenGL animation features: first, loaded project files are now animated properly; and second, object files have been more robustly linked.
6. v2024.06.12
1. [Enhancement] Implemented Squared Prediction Error (SPE) to run in conjunction with Mahalanobis Distance Test for PCA outlier detection.
 2. [Enhancement] Added ability to export to text for all PCA outlier detection/QA tests (K-means, LOF, Mahalanobis Distance, and SPE).
 3. [Enhancement] Updated the Show Animation and Show Video dialogs to auto-populate with the Explore page's selected trace(s) when possible.
 4. [Enhancement] Added ability to exports results from the active PCA calculation or from all PCA calculations when exporting to text.
 5. [Enhancement] Significant computational speed-up for calculating PCA using individual traces (instead of workspace means).
 6. [Bug Fix] Fixed case where changing group selections in the PC Reconstruction plot could cause the application to crash.
 7. [Bug Fix] Fixed case where missing LOF density scores could cause a crash when displaying the Workspace Scores plot.
 8. [Bug Fix] Resolved issue preventing Metric-Metric plot jitter values from being cleared when reset graph was selected from the context menu.
 9. [Bug Fix] Resolved issue causing labels to be displayed incorrectly or not at all on Metric,

Metric-Metric, and Signal-Signal plots.

10. [Bug Fix] Resolved issue preventing sub-groups from being displayed throughout the application.

11. [Bug Fix] Ensured library size has no impact on load times for saved query definitions.

12. [Bug Fix] Resolved issue causing application to freeze while updating CMZs.

7. v2024.05.16

1. [Enhancement] Improved interface and visualization for the Mahalanobis Distance Test.

2. [Bug Fix] Resolved issue causing PCA K-means results to be saved incorrectly.

3. [Bug Fix] Resolved issue causing cluster styles to be applied incorrectly.

4. [Bug Fix] Resolved issue preventing Signal-Signal and Metric-Metric pairs being deleted.

5. [Bug Fix] Resolved issue causing conditions to be rendered twice for each group in the Groups widget.

6. [Bug Fix] Resolved issue causing workspace styles to be applied incorrectly.

8. v2024.05.06

1. [Enhancement] Improved interface and visualizations for K-means clustering algorithm.

2. [Bug Fix] Resolved issues related to plot styles for the Explore page.

3. [Bug Fix] Allowed a workspace to be selected on the Workspace Scores plot while LOF densities are displayed.

9. v2024.04.22

1. [Enhancement] Improved interface and visualizations for Local Outlier Factor.

2. [Bug Fix] Resolved issue where project files containing the results of PCA for raw traces would not load correctly.

10. v2024.03.25

1. Initial Release of Sift

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