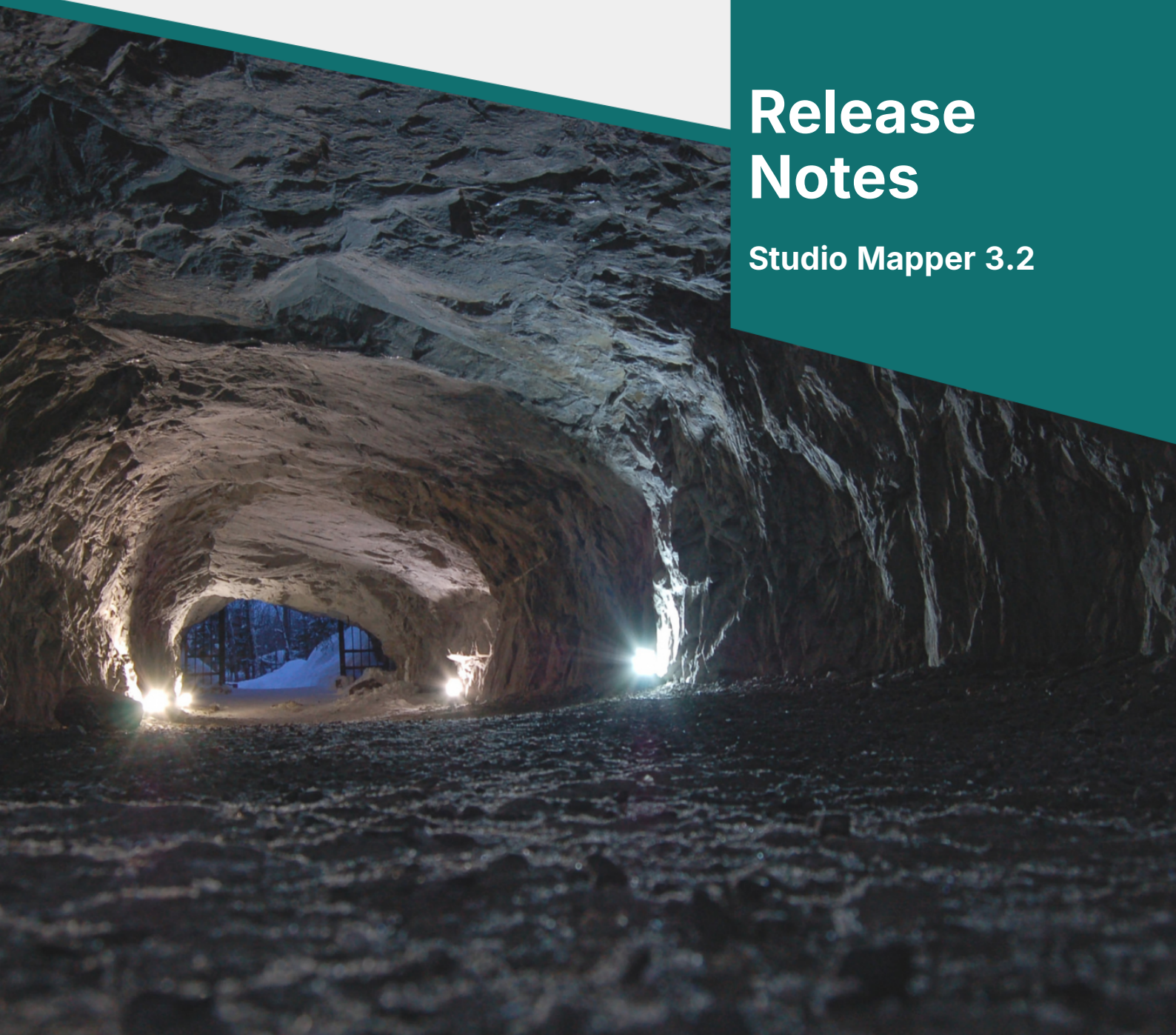
DATAMINE

STUDIO MAPPER

Geological Face Mapping Solution

STUDIO MAPPER



Release Notes

Studio Mapper 3.2

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Legal Disclaimer

The product described in this documentation may be connected to, and/or communicate information and data via, a network interface, which should be connected to a secure network. It is your sole responsibility to ensure a secure connection to the network and to establish and maintain appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of antivirus programs, etc.) to protect the product, the network, your systems, and the interface against any kind of security breach, unauthorised access, interference, intrusion, leakage, damage, or corruption or theft of data. We are not liable for damages or losses related to any such security breach, unauthorised access, interference, intrusion, leakage, damage, or corruption or theft of data.

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Overview

Studio Mapper, together with Studio RM, is the only integrated mine mapping and structural modelling solution delivered on the same platform, with a consistent user experience.

Studio Mapper is one of several products in the Studio product family, which includes:

- **Studio EM** for exploration data analysis and modeling.
- **Studio Geo** for structural modeling.
- **Studio Mapper** for geological face mapping and reporting.
- **Studio NPVS** for strategic open pit optimization, design and scheduling.
- **Studio NPVS+** for strategic open pit optimization, design and enhanced scheduling.
- **Studio OP** for open pit design and operational scheduling.
- **Studio PM** for very short term open pit operational planning.
- **Studio RM** for mine geology, reserve modeling and resource estimation.
- **Studio Survey** for open pit and underground mine surveying and reporting.
- **Studio UG** for underground mine design and scheduling.

Further Information

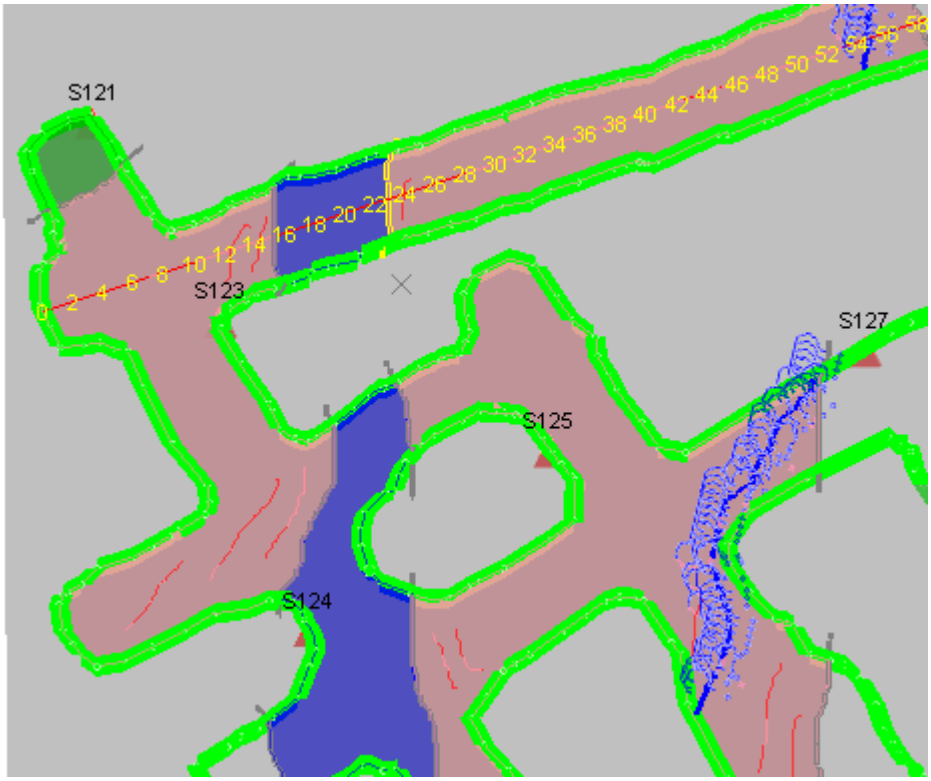
Release notes for other versions of Studio Mapper are available from Datamine's support channels:
https://www.dataminesoftware.com/support/.

For the complete Studio Mapper documentation, see
https://docs.dataminesoftware.com/StudioMapper.

Studio Mapper 3.2 Release Notes

Key Improvements

Level Maps



Studio Mapper now supports a new 'Level' map type. A common approach to mapping steeply dipping ore bodies, you can quickly and easily define map bounds in world coordinates, then import survey data and drape field-captured information before creating an automated level map report.

Capture structures and create lithological zones that can be draped either to a horizontal plane or to the undulations of the survey data, meaning your level mapping data is finally useful for downstream modelling - only Studio Mapper does this!

Level maps can be defined to a known planning extent or can adjust automatically based on the existence of newer survey data, which you are alerted to as soon as fresh field data becomes available.

Swap Maps and Map Types

New controls have been added to the **Map** ribbon to provide a more convenient way to view and change the current mine and area.

You can also change your map to a different map type to associate a different PDF report template, using the **Change Type** option on the **Map** ribbon.

Dynamic Map Attribute Lists

Your Mapping Task Bar can now contain selection lists that update depending on the selections made in other lists, using new XML configuration file options. This could be useful to allow mappers to choose a secondary, linked attribute such a subcategory of rock type, for example.

Project Data Bar Improvements

Several improvements have been made to the Project Data control bar, including:

- Drag and drop files from your operating system into the bar.
- Toolbar support.
- Extended file icons.
- Multiple file selections (for loading, for example, by dragging and dropping).

Calculate Geotechnical Attributes

calculate-geotechnical-attributes is now available in Studio Mapper. Launch it using the Command Line, and use it to calculate the average joint spacing, fracture frequency and RQD for a set of selected planes. You can also output results to a histogram or points object.

Data Transformation Improvements

You can now define *custom* coordinate transformations using the **transform-coordinates** command.

Define one or more control points in 3D space and automatically calculate the transformation between source and target systems. The resulting transformation matrix can be saved and shared with others.

There's also a new process - **TRANSCO** - that transforms data coordinates in physical files between Well Known Transformation (WKT) codes. Perfect for macro-driven transforms.

Vector Export Improvements

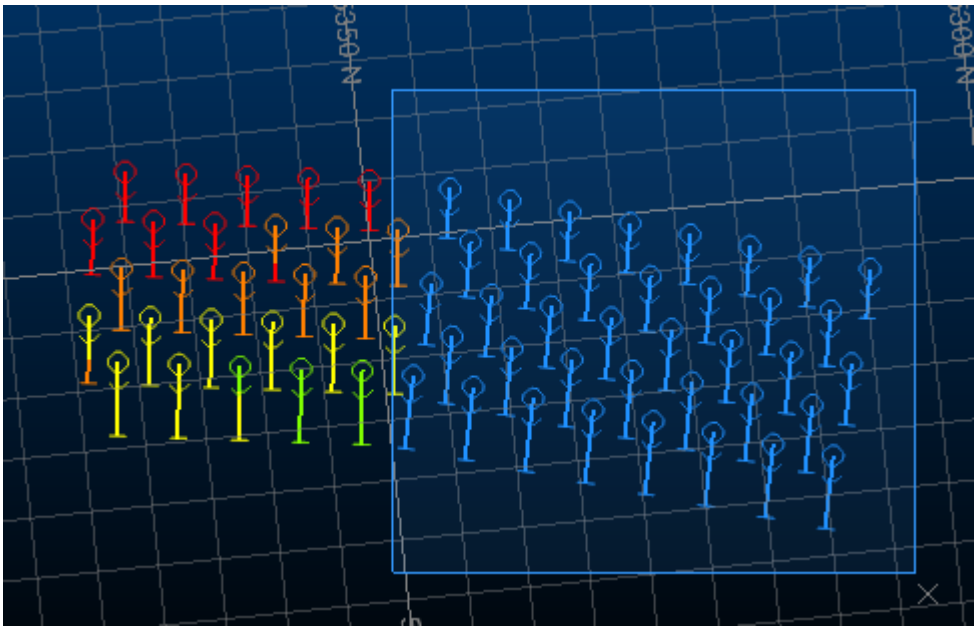
Exporting Plots window data to CAD formats has been completely overhauled to provide support for a wider range of data configurations and to improve accuracy for all exported data types.

Data can be exported as AutoCAD Drawing (.dwg) or AutoCAD Drawing Interchange Binary (.dxb) formats

Create Planar Rectangle

A new command - **create-planar-rectangle** - lets you define a rectangle by height, width, azimuth and anchor point, then position it in a 3D window interactively.

Custom Highlight Colour



Change the 3D window selection colour to whatever you like, using the new **Options >> 3D >> General >> Selection** options.

Rotate and Scale Sample Images

If displaying channel sample images, you can now scale and rotate image data in both 3D and Log views. You can even set per-image rotations by appending this information within the image database.

Enhanced License Tracking

License Manager's user logging facility has been extended to include the status of all licenses on the target system (locked, unlocked, checked in or checked out) at the start of each logging session. Previously, only licensing events were recorded. This means you can now view the starting snapshot of all licenses on the server before logging continues.

All Improvements

Commands & Processes

- **Case: Multiple** Studio Mapper now supports a new level map type.
- **Case: SMAP-1141** Several improvements have been made to the Project Data control bar.
- **Case: SMAP-1130** When adding a new comment to a map, the on-screen keyboard is displayed if it is enabled.
- **Case: SMAP-1129** The on-screen keyboard visibility state is now preserved between project sessions.
- **Case: SMAP-1128** Many Studio Mapper icons have been refreshed.
- **Case: SMAP-1122 calculate-geotechnical-attributes** is now available in Studio Mapper. Launch it using the Command Line.
- **Case: SMAP-1085** The 3D report projection now honours the current state of overlay visibility in the source primary 3D window.
- **Case: SMAP-1066** An absent data indicated ("-") has been added to the numeric on-screen keyboard.
- **Cases: SMAP-1016, SMAP-753** New controls have been added to the **Map** ribbon to provide a more convenient way to view and change the current mine and area. Also, when switching mine/area, messaging has been improved.
- **Case: SMAP-1015** You can now change mine and area using Map ribbon controls.
- **Case: SMAP-966** You can now change your map to a different map type to associate a different PDF report template.
- **Case: SMAP-667** Output PDF reports now honour a locked plot projection scale if one is set in the corresponding template.
- **Case: SMAP-578** Context-sensitive drop down list contents can be configured using new XML configuration file tags.
- **Cases:Multiple** The EXTRA process has been extended with new features, procedures and other improvements.
- **Case: CORE-8681** If a maximum file or field length is exceeded in a process, the output report now specifies the maximum amount breached.
- **Case: CORE-8515 ELLIPSE** now supports an input CENTRE file containing coordinates for positioning multiple ellipsoid output.

- **Case: CORE-8441 ELLIPSE** now supports a ZONE field to allow multiple ellipsoids to be generated simultaneously.
- **Case: CORE-8411** When saving objects, files are no longer unnecessarily converted to lower case, invalid characters and spaces are now replaced with underscores.
- **Case: CORE-8226** Changing section positions with the move-plane-forward and move-plane-backward commands is now quicker.
- **Case: CORE-8181** Exporting Plots window data to CAD formats has been completely overhauled to provide support for a wider range of data configurations and to improve accuracy for all exported data types.
- **Case: CORE-7925** When exporting vector data, each overlay now contributes to a unique CAD layer.
- **Case: CORE-7855** The performance of commands that involve moving points has been improved when a lot of visual data is loaded and displayed in a 3D window.
- **Case: CORE-7826** Block model hulls are now displayed correctly in 3D windows, in relation to the current clipping settings.
- **Case: CORE-7759** A new process - RANDOM - generates random numbers, superseding the legacy MONACO process.
- **Case: CORE-7733** User feedback when setting up default grid templates has been improved.
- **Case: CORE-7588** You can now define custom coordinate transformations using the transform-coordinates command.
- **Case: CORE-7557** Optionally, orient the 3D view direction after defining a one-point section.
- **Case: CORE-7391** A new command - **insert-segment-intersect** - lets you add a vertex to a string segment where it intersects the projected intersection of another segment.
- **Case: CORE-7266** A new command - **simplify-string** - provides an alternative string conditioning approach to condition-string.
- **Case: CORE-6886** A consistent **Enter Translation Distance** screen is displayed when translating point, string or wireframe data.
- **Case: CORE-6536** Probability plots can now be displayed as either lines or points.
- **Case:CORE-6369** A new process - **TRANSCO** - transforms data coordinates in physical files between Well Known Transformation (WKT) codes.

- **Case: CORE-5683** Downhole images can now be in any industry-standard image format.
- **Case: CORE-4144** Change the 3D window selection colour to whatever you like, using the new **Options >> 3D >> General >> Selection** options.
- **Case: CORE-2849** You can now control the scale and rotation of downhole images in 3D and Log views.
- **Case: CORE-543** A new command - **create-planar-rectangle** - lets you define a rectangle by height, width, azimuth and anchor point, then position it in a 3D window interactively.

User Experience

- **Case: SMAP-1078** Duplicate channel samples are now highlighted more clearly in the table.
- **Case: SMAP-1071** Close an active map view using a new Map ribbon button.
- **Case: SMAP-1070** The default user profile for Studio Mapper has been edited to allow more room on portable devices.
- **Case: SMAP-1012** The application splash screen has been updated to reflect new company branding
- **Case: SMAP-1013** Start page resources have been updated to reflect new company branding.
- **Case: SMAP-975** Studio Mapper ribbon icons have been updated.
- **Case: SMAP-942** The **Navigation** toolbar has been modified in response to user feedback.
- **Case: CORE-8108** Redundant drive linking settings have been removed from the **Project Settings** screen.
- **Case: CORE-8008** The default Customization window watermark logo has been updated.
- **Case: CORE-7944** Options for managing loaded ellipsoid data have been added to the Data ribbon menus.
- **Case: CORE-7785** The Data Unload screen now lists objects alphabetically.
- **Case: CORE-7783** The Data Unload screen is now resizable.
- **Case: CORE-5851** Installer graphics have been updated following corporate rebranding.

Utilities & Supporting Services

- **Case: SMAP-995** New tutorial files are included with this update.
- **Case: CORE-8328** When importing MineScape Stratmodel data, you can now choose if overlapping seam data is consolidated or left overlapping.
- **Case: CORE-8233** User logging in **License Manager** now records the status of all licenses on the host system at the start of data recording.
- **Case: CORE-7937** A MineScape Block Model Generator utility can be accessed with a new minescape-to-blockmodel command.

Documentation & eLearning

- **Case: CORE-8623** Documentation for the translate-string, translate-point, translate-string-opt and translate-wireframe commands has been updated.
- **Case: CORE-8007** Help files have been updated to reflect the latest corporate branding.
- **Case: CORE-7840** Documentation on macro limits has been updated.
- **Case: CORE-3931** More information on IF-ELSE-END loops in EXTRA has been added to the help file.
- **Case: CORE-3574** More examples have been added to the EXTRA help file.

Automation

- **Case: CORE-8292** The Studio Script Helper's **varsave()** method now produces a file that interacts with VARLOAD as expected.
- **Case:CORE-7782** The Grid DTMs command is now scriptable.

Defect Fixes

- **Case: SMAP-1114** The **Limit Snap to Face** icon no longer flickers during mouse movement.
- **Case: SMAP-1104** The Project Data bar now updates correctly after creating an initial map in a project.
- **Case: SMAP-1067** An issue causing incorrect map data orientation in the output PDF report, where 3D projections are used, has been resolved.
- **Case: SMAP-1034** Maps are now listed in a consistent and sensible way in drop-down lists.
- **Case: SMAP-1022** Initialising maps for new projects created alongside an existing project is no longer unexpectedly slow.
- **Case: SMAP-944** An issue preventing the display of a georeferenced map in the butterfly view has been resolved.
- **Case: SMAP-593** A check will now be made to reload existing map data in preference to creating new data.
- **Case: CORE-8727** The application no longer halts unexpectedly if a macro containing more than 10 macros is right-clicked in the Project Files control bar.
- **Case: CORE-8693** If EXTRA is called from a macro, a missing GO instruction no longer prevents the process from completing.
- **Case: CORE-8352** An issue causing the system to halt when reimporting Fusion data has been resolved.
- **Case: CORE-8484** Start pages now show the correct modified data for projects. Previously, some dates were truncated.
- **Case: CORE-8321**An issue causing the capping surface of a block model cell to be displayed, even when clipping is disabled, has been resolved.
- **Case: CORE-8319** An issue causing clipped block model cells to render incorrectly has been resolved.
- **Case: CORE-8280** An issue causing the restoration of form values to render process screens incorrectly has been resolved.
- **Case: CORE-8201** Reload All now reloads all data types as expected.
- **Case: CORE-8199** When exporting plot data in a vector format, labels are now position correctly if not exported as vectors.
- **Case: CORE-8184** An issue preventing Edit Attributes from working correctly with alphanumeric fields has been resolved.
- **Case: CORE-8042** If BHID values were numeric and larger than seven significant figures DESURV could fail. This is now resolved.

- **Case: CORE-8041** A data-specific issue causing HOLES3D to process indefinitely has been resolved.
- **Case: CORE-7989** DXF import now imports frozen layers by default, and an issue causing duplicate points has been resolved.
- **Case: CORE-7971** An issue causing the Back, Finish and Cancel buttons to appear incorrectly in the New Legend wizard, after resizing it, has been resolved.
- **Case: CORE-7970** New Legend bins now have correctly assigned values when the distribution is logarithmic.
- **Case: CORE-7859** Redundant data import items in the 3D window context menu have been removed.
- **Case:CORE-7837** An issue causing processes to fail, if long path names were used in conjunction with !LOCDBOFF, has been resolved.
- **Case: CORE-7524** An issue causing an incorrect string segment to be removed, after using the Insert Line command, has been resolved.
- **Case: CORE-7514** An issue causing clipboard items to be pasted twice into the command line has been resolved.
- **Case: CORE-7487** EXTRA's calculation of inverse trigonometric function “asin” while there is a mathematical expression which contains columns inside it, is now as expected.
- **Case: CORE-7248** An issue causing unexpected value distributions in histogram and log histogram data when customizing the X axis has been resolved.
- **Case: CORE-6813** You can now define a segment length below 1 when using the **create-ramp-string** command.
- **Case: CORE-6690** An issue causing misaligned texturing of an imported .obj file has been resolved.
- **Case: CORE-6375** When exporting plot data in vector format, grid data is now exported correctly.
- **Case: CORE-5460** When exporting plot data to a CAD format, precision issues no longer occur when world coordinates are disabled.
- **Case: CORE-3966** Exporting to a vector format no longer includes data outside the original view boundaries.

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