DATAMINE

STUDIO MAPPER

Geological Face Mapping Solution

STUDIO MAPPER

Release Notes

Studio Mapper 3.1

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Contents

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 OP for open pit design and operational scheduling.

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

This document includes cumulative releases notes for [[[Undefined variable General.VersionNumber]]].
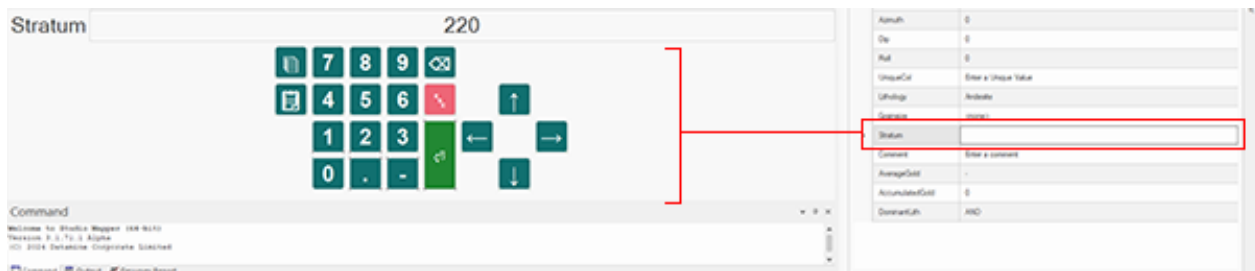
Release notes for other versions of Studio Mapper are available via the Support Portal https://www.dataminesoftware.com/support/.

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

Studio Mapper 3.1 Release Notes

Key Improvements

On-Screen Keyboard

Entering data values on a portable device in a light-restricted environment, wearing safety gear and under pressure to make way for the next shift, can be difficult.

Studio Mapper now features an automatic on-screen keyboard that you can use to tape data values clearly and easily. Designed from scratch to suit the needs of field geologists, the keyboard offers contextual display to ensure appropriate values are entered.

Toggle the keyboard mode using the **Setup** ribbon's **On-Screen Keyboard** button

3D Projections in Output Reports

Studio Mapper output PDF reports can now integrate both 2D and 3D report projection types, or even a combination of projection types.

Mapping Task Panel Layout

The **Mapping** task panel has been reconfigured to make it easier to navigate on a portable device.

Limit Snapping to Face Data

A new snapping mode - **Limit snap to face** - can limit snap point selection to only data on the currently active map face. This is supported by a new design command **snap-limit-to-face-switch**.

Generate a 2D Grid
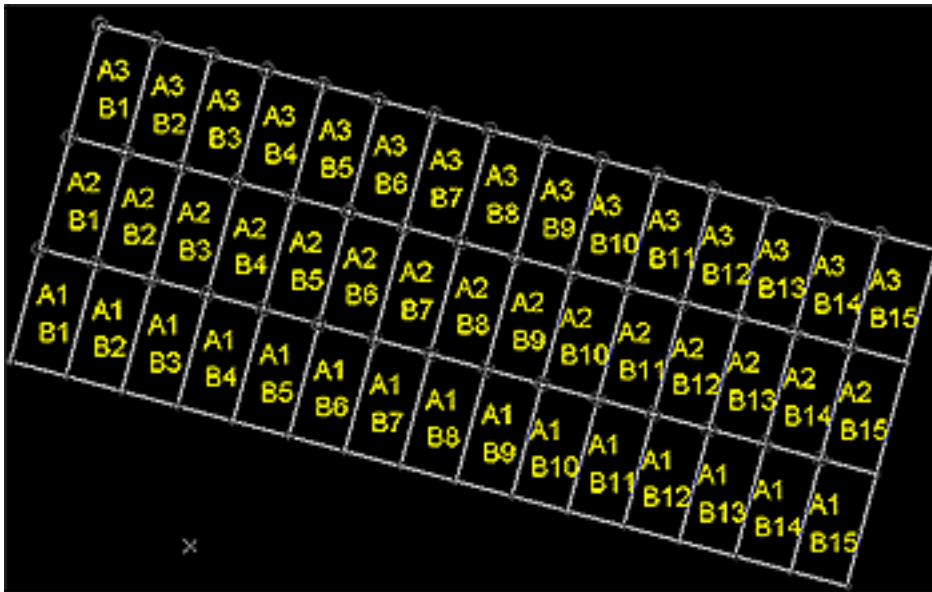
Use **create-grid-perimeter** to generate a 2D grid anywhere in 3D space, with optional grid reference attribution.

Define any origin and azimuth, and design a grid on a 2D plane of any orientation. Each grid cell can be attributed automatically to quickly set up grid reference attributes.

Drillholes as Points

A new option has been added to the 3D Drillhole Properties screen to allow drillhole samples to be rendered as points. Choose the position of the symbol and set its style, including 2D and 3D options.

Legends Manager Overhaul
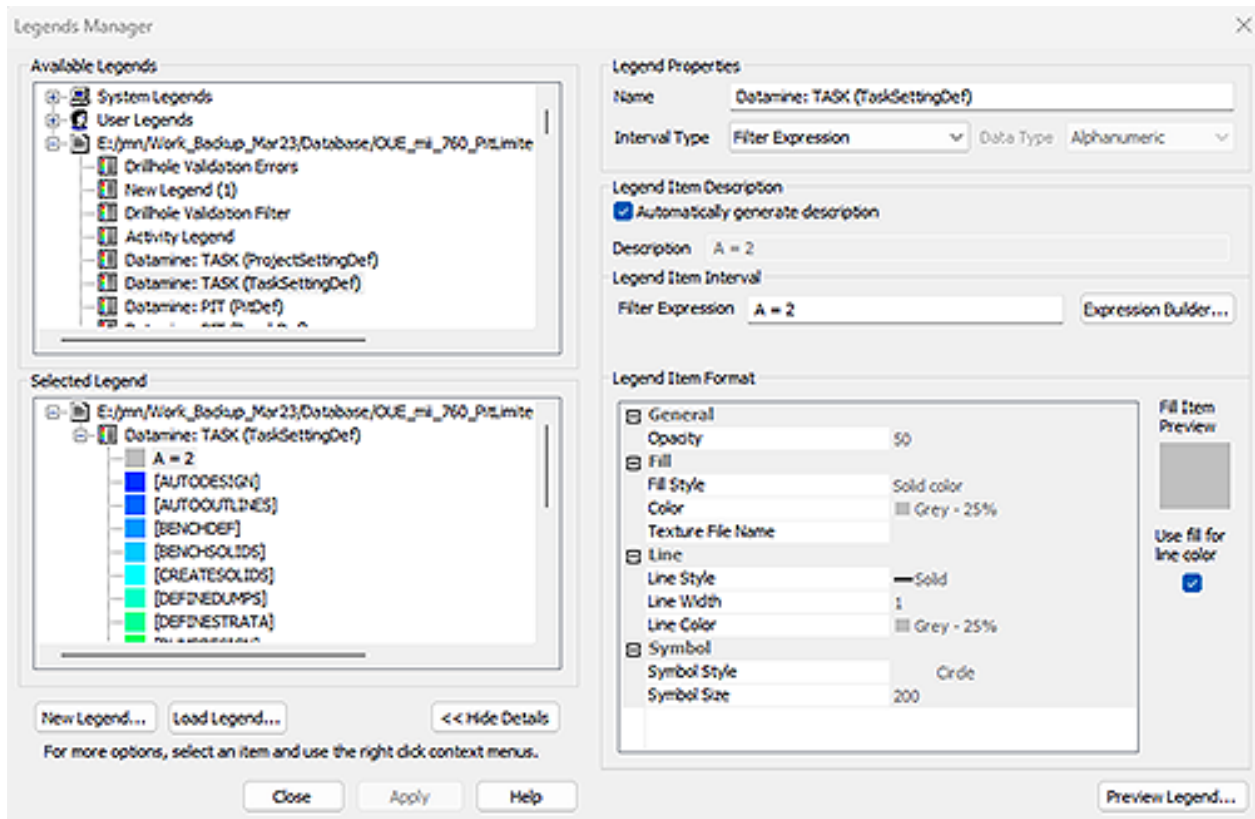
The **Legends Manager** has been overhauled to make it easier to use; Legends and intervals are now in separate lists. This also allows larger legends to be created.

Import & Export Deswik Data
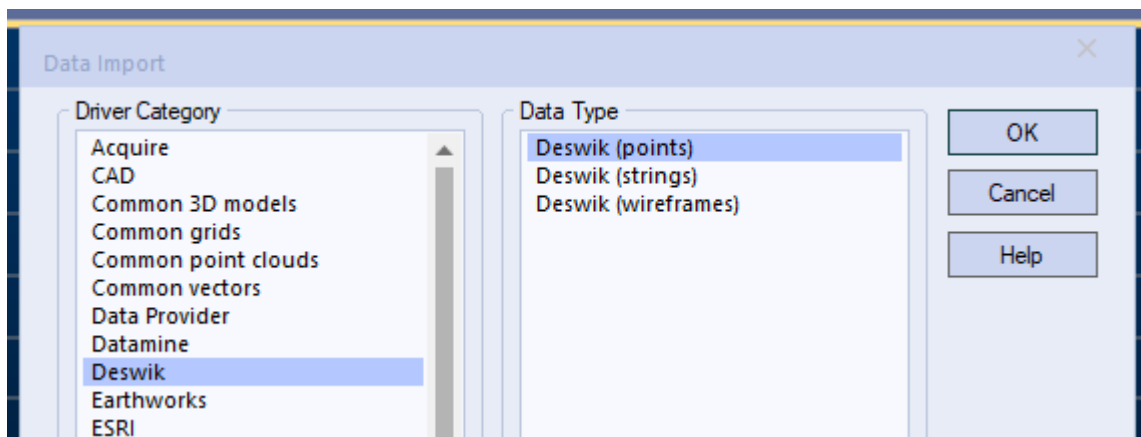
You can now import data in Deswik's unified format (points, strings or wireframes) using a brand new data driver, accessible using the various file load and import routines available on the **Data** ribbon. You can also export any loaded data as either points, strings or wireframes in the same .duf format.

New and improved design commands

- A new command - **add-zintersect-to-string** - lets you inject string points at a specified elevation.
- A new command - **clip-strings-to-perimeters** - lets you clip any string data with one or more selected perimeters.
- **extend-string-to-string** can now be used to extend any string segment.
- **extend-segment-virtual-intersect**: Extend a string segment to virtually intersect a second segment of another selected string (new command).
- **fillet-single-string-point** can now be performed on strings not in the XY plane.
- **filter-point-off**: Prevent the display of point data without removing it from memory (new command).
- **hide-non-selected-points**: Disable the display of all non-selected point data (new command).
- **move-string-to-view** projects string data without retaining the original data.
- **write-selected-points**: Save selected points to an external file.

Plotting Enhancements

- You can now use **Quick Filter** and Format ribbon filtering options whilst using the **Plots** window.
- Use the "za" quick key combination to automatically zoom the contents of a target projection to fit the available space.
- Navigate active projections or plot sheets by zooming in or out using the mouse wheel, similar to the 3D window behaviour.
- Use the "zx" quick key combination in a Plots projection to activate zoom-by-area mode.
- Deselect any active projection using <CTRL> and a left click.

All Improvements

Commands & Processes

- **Case:** SMAP-1040 You can now set a MapType configuration tag - <UseAutomaticOverlayMode> - to determine if 3D or 2D overlays are generated in reports.
- **Case:** SMAP-937 Studio Mapper PDF reports can now integrate both 2D and 3D report projection types, or even a combination of projection types.
- **Case:** SMAP-909 A new snapping mode - **Limit snap to face** - can limit snap point selection to only data on the currently active map face.
- **Case:** CORE-7949 An error in the write-all-strings help file has been corrected.
- **Case:** CORE-7936 A new command - **switch-drillhole-points-traces** - toggles between pixel line and points drillhole rendering modes.
- **Case:** CORE-7931 Drillholes can now be rendered as points.
- **Case:** CORE-7778 A new command - **write-selected-points** - lets you save selected points to an external file.
- **Case:** CORE-7671 The auto alignment option when defining a new 3D section now also applies to Vertical and Perpendicular section types.
- **Case:** CORE-7670 **Macro path lengths** can now be up to 256 characters (the previous limit was 72 characters).
- **Case:** CORE-7644 Use the "za" quick key combination to automatically zoom the contents of a target projection to fit the available space.
- **Case:** CORE-7641 You can now use **Quick Filter** and Format ribbon filtering options whilst using the **Plots** window.
- **Case:** CORE-7643 Use the "zx" quick key combination in a Plots projection to activate zoom-by-area mode.
- **Case:** CORE-7569 Data objects derived from a database connection now display their connection string in the Data Object Manager.
- **Case:** CORE-7592 Deselect any active projection using <CTRL> and a left click.
- **Case:** CORE-7558 You can now automatically align the view when swapping between preset section orientations (N-S, E-W etc.)
- **Case:** CORE-7478 **Converge-segments** has been refactored, making it faster and more robust.
- **Case:** CORE-7447 **JOIN** supports up to 30 key fields.

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- **Case:** CORE-7398 **move-string-to-view** projects string data without retaining the original data.
- **Case:** CORE-7397 **extend-string-to-string** can now be used to extend any string segment.
- **Case:** CORE-7395 A new command - **add-zintersect-to-string** - lets you inject string points at a specified elevation.
- **Case:** CORE-7396**extend-segment-virtual-intersect**: Extend a string segment to virtually intersect a second segment of another selected string.
- **Case:** CORE-7310 The **Legends Manager** has been overhauled to make it easier to use
- **Case:** CORE-7152 A new command - **clip-strings-to-perimeters** - lets you clip any string data with one or more selected perimeters.
- **Case:** CORE-6934 You can now **restore** previously used **retrieval criteria**.
- **Case:** CORE-6705 When clipping perimeters to other perimeters, interacting with the Quick Filter bar now persists the previous selection.
- **Case:** CORE-6570 **snap-to-mid-string-switch** now affects snapping to both the mid points of strings and drillhole segments.
- **Case:** CORE-6389 A new command - **assign-attributes-by-selection-order** - lets you attribute string, drillhole or wireframe data based on data selection or string direction order.
- **Case:** CORE-6388 Use **create-grid-perimeter** to generate a 2D grid anywhere in 3D space, with optional grid reference attribution.
- **Case:** CORE-5284 **filter-point-off** and **show-non-selected-points** commands have been created.
- **Case:** CORE-4438**fillet-single-string-point** can now be performed on strings not in the XY plane.
- **Case:** CORE-3957 A new command - **switch-wireframe-edge**, lets you quickly adjust the internal organization of wireframe triangles in a quadrilateral.

User Experience

- **Case:** SMAP-960 The Mapping Task panel has been reconfigured to make it easier to navigate on a portable device.
- **Case:** SMAP-958 Studio Mapper's **Start** Page now responds to look and feel changes.
- **Case:** SMAP-939 System options can now be accessed from the **Setup** ribbon.

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- **Case:** CORE-8060 **write-selected-points** has been added to the 3D window context menu (Save >> Selected Points).

- **Case:** CORE-7865 Screen text has been added to suggest using <CTRL> when using the assign-attributes-by-selection-order command.

- **Case:** CORE-7702 An issue causing the degrees symbol to be displayed incorrectly in various parts of the application has been resolved.

- **Case:** CORE-7658 The **Find Command** dialog now reacts to visual theme changes.

- **Case:** CORE-7534 The **Wireframe Smooth** dialog is now supported by extended visual themes.

- **Case:** CORE-7267 The **Command** toolbar icons have been updated.

Utilities & Supporting Services

- **Case:** SMAP-920 Studio Mapper now features an automatic on-screen keyboard that you can use to tape data values clearly and easily.

- **Case:** CORE-8051 Datamine License Services is now supported in networks utilizing the TLS (Transport Layer Security) protocol versions 1.2 and 1.3.

- **Case:** CORE-7662 Swapping from online to offline mode (or vice versa) now automatically reloads the current Start page content.

- **Case:** CORE-4876 You can now load and import data in Deswik Unified Format (.duf). The new driver option appears on the Data Import screen, accessed via the Data ribbon.

Documentation & eLearning

- **Case:** CORE-7414 The **PICREC** help file includes information on disambiguating reserved keywords.

Defect Fixes

- **Case: SMAP-1057** An issue causing the system to halt when editing channel sample interval values has been resolved.
- **Case: SMAP-1004** Closing the **Mapping** task now reinstates the 3D map and world windows as expected.
- **Case: SMAP-1002** An issue that could cause comments to be associated with an incorrect map face has been resolved.
- **Case: SMAP-996** Unexpected button clipping no longer occurs in the Vertical Sections grid.
- **Case: SMAP-956** Unexpected butterfly map clipping on reopening a project has been resolved.
- **Case: SMAP-940** An issue causing a minimized ribbon to be frozen on a tablet device has been resolved.
- **Case: SMAP-427** After georeferencing a map and rotating it in the XY plane, in some instances the top or bottom plane reverted back to the default azimuth and dip. This has been resolved.
- **Case: CORE-8153** The User License Logging template spreadsheet has been updated to meeting Windows 11 requirements.
- **Case: CORE-7998** An issue causing system shutdown when creating a legend for a recently modified drillhole has been resolved.
- **Case: CORE-7982** Transform Coordinates no longer creates empty output if the input is in single-precision format.
- **Case: CORE-7891** An issue preventing the full import of AutoCAD data has been resolved.
- **Case: CORE-7788** An issue causing potential system instability when sorting by Date Modified in the Project Browser has been resolved.
- **Case: CORE-7780** You can now pan plot views using the cursor as expected.
- **Case: CORE-7723** You can now update the License Services product name registration database more than once.
- **Case: CORE-7722** In some circumstances in models with a large number of fields including alphanumeric fields, **PROMOD** volume calculations were incorrect. This is now resolved.
- **Case: CORE-7709** Reliance on the Microsoft Visual C++ 2010 x64 Redistributable (10.0.40219) has been removed, following reports of potential insecurities.
- **Case: CORE-7689** When importing a Minescape Prism model, multiple layers can be selected, and you can also create a SEAM column during import.

- **Case:** CORE-7684 An issue causing system instability when changing the format of a block model overlay in the Plots window has been resolved.
- **Case:** CORE-7666 Pasting text into the Command toolbar no longer duplicates the clipboard contents.
- **Case:** CORE-7622 Global selection buttons in the Data Provider table selection screen are now operational.
- **Case:** CORE-7618 Selecting and deselecting individual drillholes or segments is now significantly faster.
- **Case:** CORE-7530 An issue causing an unexpected system restart after a product installation has been resolved.
- **Case:** CORE-7441 An issue causing a Micromine block model to fail to load has been resolved.
- **Case:** CORE-7435 DXF wireframes can now be saved via script as expected.
- **Case:** CORE-7390 **SELWF** now assigns attribute values based on the order of input wireframe data, reinstating legacy behaviour.
- **Case:** CORE-7361 An issue causing incorrect icons to be displayed for Data options in the Loaded Data/Sheets context menu has been resolved.
- **Case:** CORE-7126 An issue preventing the successful drag and drop loading of DWG and DXF files has been resolved.
- **Case:** CORE-6988 The Create Ramp String command no longer creates an unexpected additional segment when the gradient is greater than 0..
- **Case:** CORE-6872 When using **SELPER**, If the perimeter file contains DPLUS and DMINUS fields and the values are zero a small tolerance is applied internally to avoid numerical comparison errors. This is now consistent with the methodology used for the DPLUS and DMINUS parameter values when either of them is zero.
- **Case:** CORE-6827 An issue causing a DGN mesh to import has been resolved.
- **Case:** CORE-6137 An issue causing unexpected A0 and B0 results in output from COMPDH has been resolved.
- **Case:** CORE-5654 An issue causing a Microstation DGN wireframe to import has been resolved.
- **Case:** CORE-4333 Drillhole data selection in the 3D window is now more accurate with large data and high scaling.
- **Case:** CORE-3966 Exporting Faces and polylines via the CAD driver no longer export unwanted point data.

Datamine enables efficient and sustainable
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