

Release Notes

Studio Geo 1.1



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STUDIO GEO



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Overview



Studio Geo is a significant step forward in Geological Modelling, fusing the best of implicit and explicit modelling tools into user-driven, dynamic workflows. Designed by geologists for geologists, Studio Geo is built to tackle modern challenges in geological models for exploration, production and resource modelling.

Whether you're updating models with drilling or creating a new model from raw data to an estimated grade model, Studio Geo empowers you to interpret, iterate, and innovate – without leaving your geological context.

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

-  **Studio EM** for exploration data analysis and modeling.
-  **Studio Geo** is for geological and structural modeling.
-  **Studio Mapper** for geological face mapping and reporting.
-  **Studio NPVS+** for strategic open pit optimization, design and enhanced 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.

Note: Studio Geo release notes are cumulative for each major version, in reverse chronological order.

Further Information

This document includes cumulative releases notes for [[[Undefined variable General.VersionNumber]]].

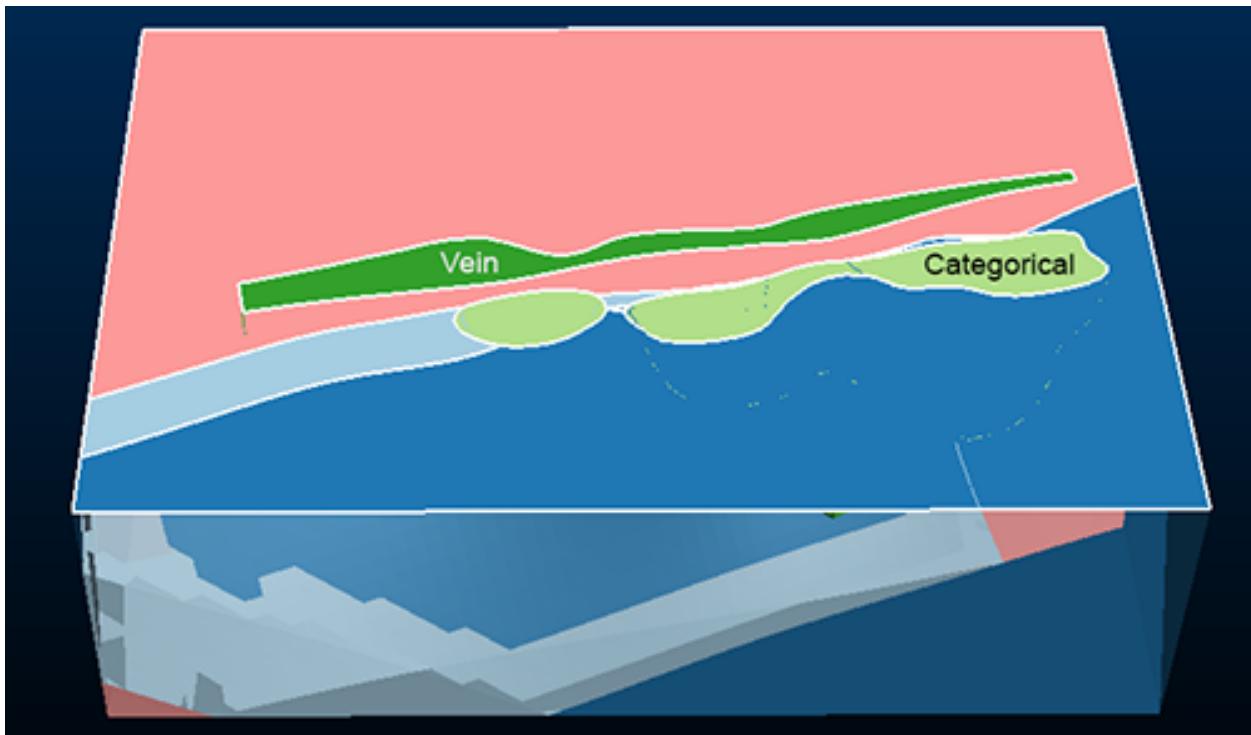
Release notes for other versions of Studio Geo are available via the Support Portal <https://www.dataminesoftware.com/support/>.

For the complete Studio Geo documentation, see <https://docs.dataminesoftware.com/StudioGEO>.

Studio Geo 1.1 Release Notes

Key Improvements

Categorical Dynamic Modelling



You can now integrate cross-cutting intrusions and massive, irregularly shaped orebodies directly into your Dynamic Modelling workflow. Studio Geo seamlessly incorporates Datamine's categorical implicit modelling, allowing you to capture complex geological relationships within a single, unified model.

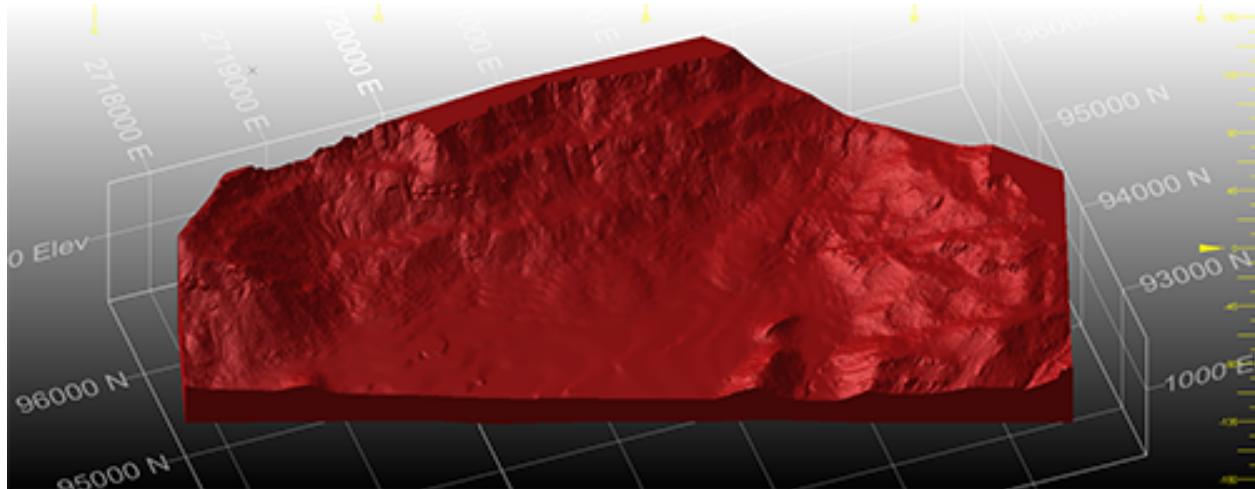
The **Configure Domain** task has been enhanced to recognise cross-cutting domains as either vein or categorical models, automatically applying the most appropriate method to preserve geological accuracy.

You're no longer restricted to a single cross-cutting approach — combine contact, vein, explicit and categorical surfaces within the same workflow. Categorical domains are managed just like any other task, with full access to modelling properties and controls through the workflow bar.

Other Modelling Improvements

- Control the density of your output **contact surface** using new **Resolution** controls.
- By default, all implicit modelling commands now default to snap surface data to the drillhole milestone data positions.
- The Dynamic Modelling workflow's **Configure Domain** task now lets you select multiple domain items to move between lists.
- You can now colour Dynamic Modelling contact surfaces, symbols, additional points, output surface and output contact points using either a fixed colour or a legend and column lookup.

Leapfrog Data Import



You can now import Leapfrog mesh (.msh) and Leapfrog Project Model (.lfm) files using a new Data Source Driver. Data is imported as wireframes.

If importing a Leapfrog Project Model file, you can choose to import all associated mesh data or a subset, and can choose the attribute to use to store the original mesh name, making downstream data management much easier.

The new formats are also supported by Studio's drag-and-drop facility, meaning you can drag one or more files into the 3D view and default load settings are used to create the relevant objects in memory and display them.

Digitise Doughnuts!

A new design command (`digitise-doughnut`) lets you create closed string data with internal voids. You select the non-overlapping and fully concentric closed string data and a new closed shape is formed automatically. This is particularly useful where you need to, say, capture the shape of internal void structures in a particular rock zone, or in any situation where an enclosed internal structure needs to be represented.



The new command works really well in relation to polygonal map features and outlines. You can even create multiple layers of structure 'nesting' and input closed strings can be at any orientation, providing the internal structures are fully enclosed without overlaps or crossovers.

You can control how new data is created using a new switch (`doughnut-storage-switch`) to choose between modifying an existing perimeter or generating completely new string data.

Multiple File Loads

You can now import or load multiple files in one operation using new multi-file options. Just pick the files you want to load using a simple browser, and Studio does the rest. You still get to specify load and importation settings, including those

specific to a particular driver, but now you can complete the process in a fraction of the time.

To access this function, click **Add to Project** or **External** on the **Data** ribbon and pick your files.

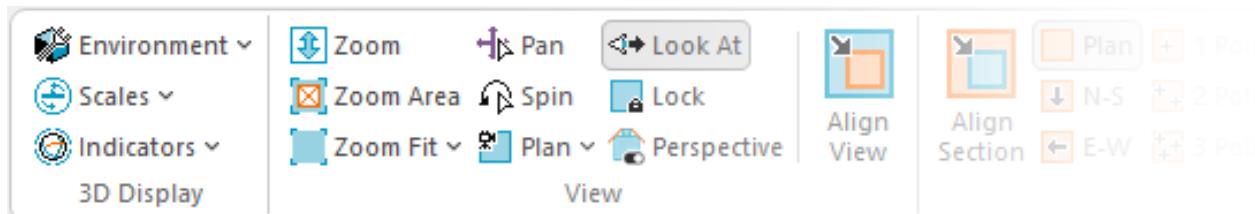
Either import multiple files to the project or load them directly into memory. These files can be of the same type and format or different ones, meaning you can pick a batch of files of various formats (CAD, BMF, DMX and more) and either add them to the project or load and display them after importation and conversion. This makes light work of importing files from other projects and applications.

To use the previous driver selection method, use a menu option to pick a data type or select the new "by driver" option for project import.

COMPDH Field Improvements

COMPDH now supports up to 5 ZONE fields to composite within, and five optional fields **DOM1** to **DOM5** can now be specified to record dominant categorical values (by length) within each composited sample. **DOM1** to **DOM5** can be a combination of numeric or up to 32 character alpha fields.

Ribbon Standardization



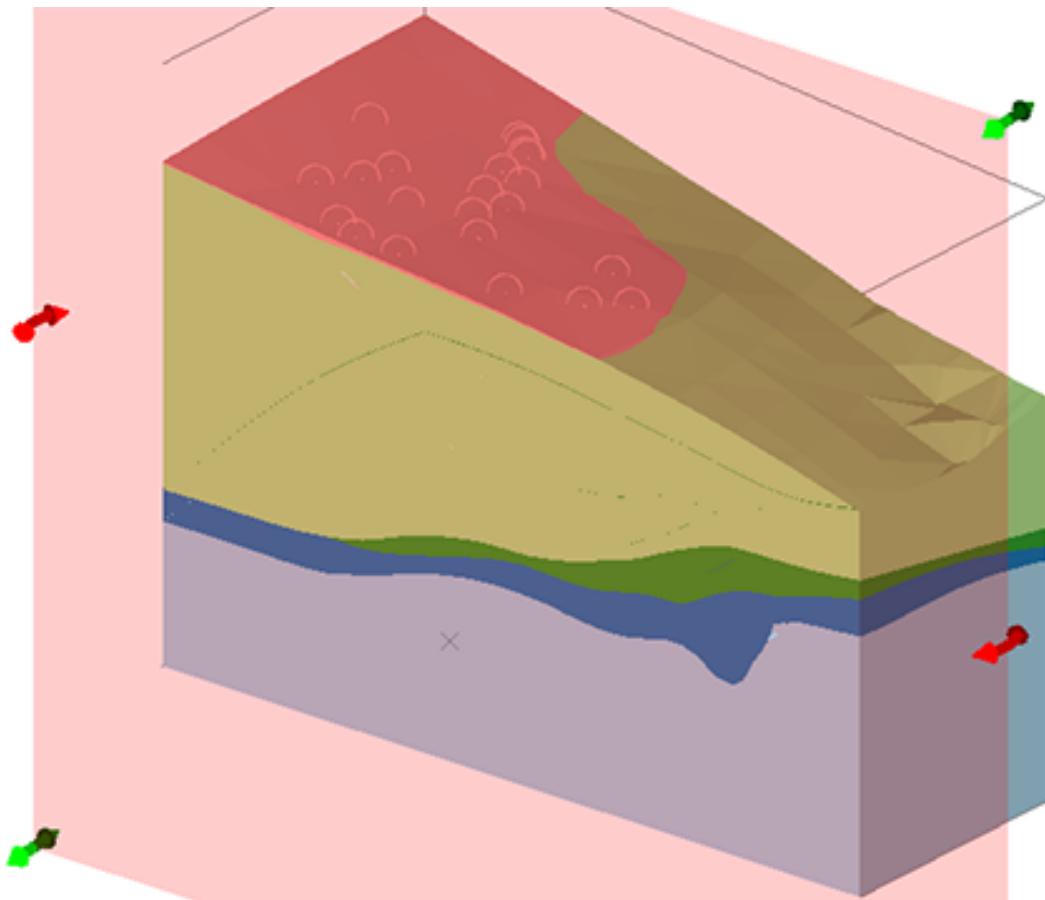
Following your requests to adopt a more consistent ribbon layout between Studio products for core (shared) commands, we've made a few changes for this update. This means your familiarity with one Studio is now useful if using another product in the Studio range. Where possible, we have standardized command grouping and positions for the **Data**, **Format** and **3D View** ribbons. We've maintained specific layouts where a particular operating domain demands it, such as grade estimation, resource modelling, pit design and field mapping functions, so these aren't changing.

We will continue to standardize our ribbons, where appropriate, in future releases.

Other Command & Process Updates

- **WIREFILL** now supports retrieval criterial.
- **REBLOCK** now supports retrieval criterial.
- **COPYMOD** now supports retrieval criterial.
- **INTEXT** can now process data using either a data definition (INDD) file or a **SETTINGS** file, or neither.
- **smooth-gradient** can now be used to fully smooth (start to end) preselected strings.

New Demonstration Data



Studio Geo is easy to use, and now it's even easier to learn the system with installed demonstration data. A tutorial project can be found at <C:\Database\DMTutorial\Projects\GeoTut>. Load the project to access a prepared Dynamic Modelling scenario demonstrating multiple categorical domains. This data will be referred to in the future via eLearning and other help files.

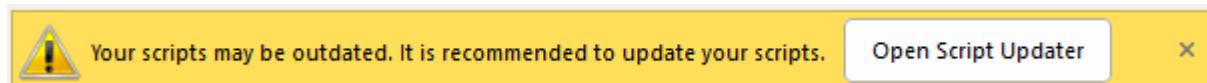
Safer Scripting

To maintain the highest level of local data security, we've rigorized our scripting interface in Studio products to provide a way to securely instantiate approved ActiveX objects through automation scripts. This provides a safer and more marshalled automation environment.

In brief, we've introduced a new Studio application method (`CreateObject`) that can be used in place of the deprecated `new ActiveXObject("Prog.ID");` instruction. A call to something like `window.external.System.CreateObject("Prog.ID");` allows approved ActiveX objects to be instantiated to support your scripts. Most importantly, the ones that provide the highest risk are blocked.

The **Datamine Studio Script Updater**, accessible via your **Home** ribbon, can update your scripts either individually or as a batch, automatically making them safer to use.

If you load a script that looks like it could benefit from additional protection, a banner appears atop your display area. This also provides access to the conversion utility:



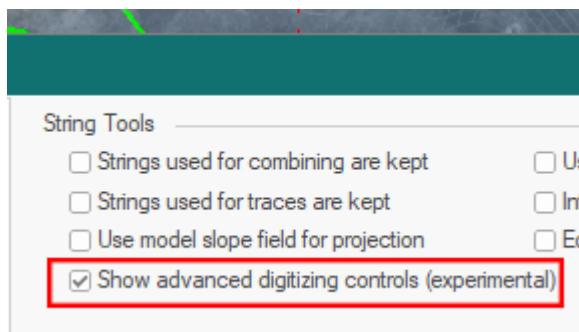
Early Access Features

Advanced Digitizing Controls

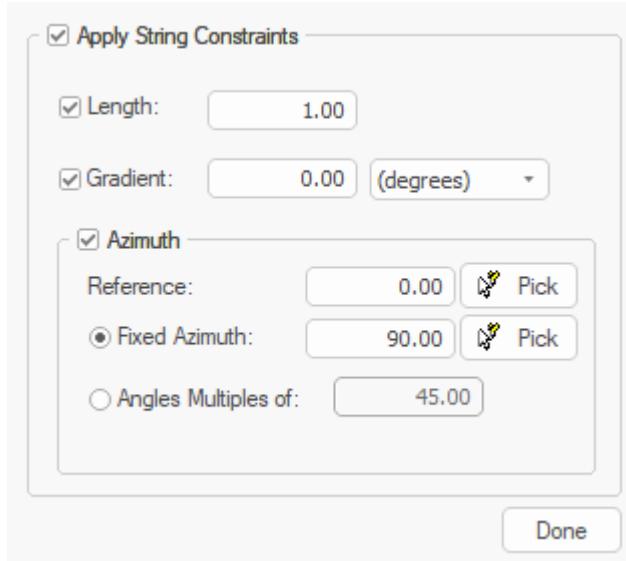
As part of a wider campaign to improve and extend our digitizing tools, we've introduced a new way of creating new string data in this update, and we'd love to know what you think before we finalize things.

`new-string`, arguably the most commonly used design command in any Studio product, has been extended over the years and also supported by a range of other design functions to enhance more 'managed' digitizing often required in the mine planning domain, where design drafting with precise string properties can be critical to an effective design and schedule. The `extend-string` command has been similarly enhanced.

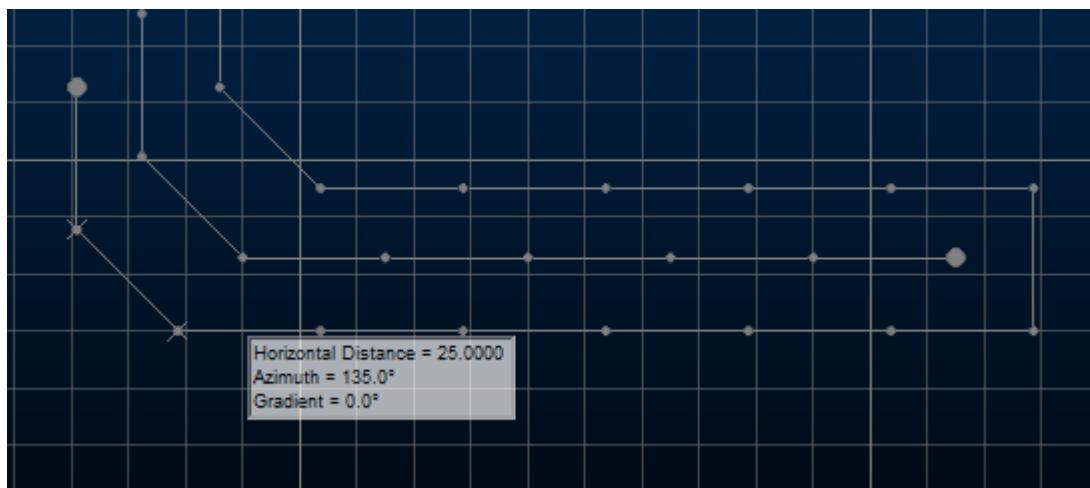
`new-string` and `extend-string` can run in an enhanced mode in this update. By default, both commands behave as before, but there's a new project setting that allows advanced settings to be applied during digitizing to constrain the orientation of the next string segment you create. Located on the **Points and Strings** screen, check **Show advanced digitizing controls** to activate enhanced mode for **new-string** and **extend-string**:



The next use of either command displays a popup allowing you to constrain the length, azimuth and gradient of the next string edge. For constrained angle changes, you can also ensure azimuth changes are made in fixed amounts from the previous string segment:



This can help to ensure operational and design constraints are honoured during digitizing, saving time later by editing and adjusting design data. Help files for both commands have been updated to explain how to use the new controls. You can also press F1 when the new popup displays during digitizing.



Please let us know what you think of this early-access feature. We value your feedback!

Improvements

- **Multiple Cases** You can now model categorical volumes (in addition to veins and contact surfaces) as part of the Dynamic Modelling workflow.
- **GEO-809** Docked and grouped implicit modelling task bars now display correct tab icons.
- **GEO-802** Icons displayed by Implicit Modelling icons in docked control bar groups have been updated.
- **GEO-784** The Dynamic Modelling workflow's **Configure Domain** task now lets you select multiple domain items to move between lists.
- **GEO-781** You can now double-click an object in the Dynamic Modelling workflow to display the associated 3D overlay settings.
- **GEO-781** New Dynamic Modelling Properties bar fields display the results of the most recent run, including warnings and errors.
- **GEO-761** Studio Geo now installs **demonstration data** and project at C:\Database\DMTutorials\Projects\GeoTut.
- **GEO-713** The default name for new drillholes in Dynamic Modelling is now "New Drillholes" (previously "-New Drillholes-").
- **GEO-707** The Dynamic Modelling task list now scrolls automatically after adding a task, to reveal the new item.
- **GEO-695** A progress bar now appears during Dynamic Modelling, when the combined solid is created.
- **GEO-660** Dynamic modelling drillhole task item highlighting is now more specific.
- **GEO-626** The alignment of block model legend application buttons in the Dynamic Modelling task have been set to right-aligned
- **GEO-422** You can now add new contact surface, vein or categorical tasks or preformed wireframes to a domain task.
- **STUDIO-7369** By default, all implicit modelling commands now default to snap surface data to the drillhole milestone data positions.
- **STUDIO-7300** The **COKRIG** help file has been extended to include more information about **VREFNUM** and **VSETNUM** in input parameter files.
- **STUDIO-7221** You can now colour Dynamic Modelling contact surface symbols, additional points, output surface and output contact points using the colour of the stratigraphy.
- **STUDIO-7094** Control the density of your output contact surface using new Resolution controls.

- **CORE-9827** .dmx.tmp files are now ignored by the **Project Files** and **Project Data** control bars.
- **CORE-9775** As part of the project to standardize some of the Studio ribbons, icon updates have been made.
- **CORE-9732** Read-only DM files are now converted to read-only DMX files during project or utility-initiated conversion.
- **CORE-9711** Documentation for EXTRA's RAND and RANDBETWEEN numeric functions has been improved.
- **CORE-9649** Block model fields in the Text Importer are now ordered more sensibly.
- **CORE-9604** The default field of view angle for new projects is now 45 degrees (set-view-fov command).
- **CORE-9586** To increase system security, we have blocked the display of online content in the Customization window.
- **CORE-9583** In Files, Fields and Parameters screens running in Dark mode, text in dropdowns is now more readable.
- **CORE-9579** COMPDH now supports up to 5 ZONE fields to composite within, and five optional fields DOM1 to DOM5 can now be specified to record dominant categorical values (by length) within each composited sample.
- **CORE-9578** The Script Recorder now generates syntax that aligns with Datamine's safer scripting practices.
- **CORE-9574** The legacy script converter utility has been removed from product distributions.
- **CORE-9561** Rationalization of baggage files for help systems means Studio installation file sizes are now smaller.
- **CORE-9551** The **Datamine Studio Script Updater** has been provided to automatically convert your scripts to more protected versions.
- **CORE-9550** The Studio scripting environment now offers a safer scripting syntax, minimizing the potential impact of malicious thread actors.
- **CORE-9546** New calculated (virtual) fields are now available to calculate the dip angle (**_PDIP**) and direction (**_PDIPDIR**) of the best fit plane through a data object.
- **CORE-9542** A more secure mechanism for data object automation has been implemented. Consult your online help for more details.
- **CORE-9540** You can delete selected 3D overlays of the Project Data using the <DELETE> key.

- **CORE-9539** The **CalculateEdgeMetrics()** method now calculates values for the final edge of a closed perimeter.
- **CORE-9528** The Plots window **Section** and **View** ribbons now have new icons.
- **CORE-9526** It is now quicker to read and process DMX files containing alphanumeric columns.
- **CORE-9522** WIREFILL now supports retrieval criteria.
- **CORE-9521** COPYMOD now supports retrieval criteria.
- **CORE-9519** REBLOCK now supports retrieval criteria.
- **CORE-9490** The Text Importer can now be automated using any Studio product.
- **CORE-9482** The `switch-drillhole-points-traces` command is now available on the Format ribbon (Display Mode group).
- **CORE-9474** The **Text Importer** and **INTEXT** documentation has been extended and corrected.
- **CORE-9473** **INTEXT** can now process data using either a data definition (INDD) file or a SETTINGS file, or neither.
- **CORE-9449** The **CENTRE** file for the **ELLIPSE** process is no longer dependent on search, variogram or zone parameter file inputs.
- **CORE-9409** An issue causing an unsorted block model to become locked after a previous attempt to load it has been resolved.
- **CORE-9398** In **COMPDH** it has always been the case that if the **LENGTH** field in the input sample file is not equal to **FROM - TO** the **LENGTH** field is set to **TO - FROM**. This behaviour remains, but a maximum of 10 messages are issued in a process run.
- **CORE-9383** The **3D View** ribbon layout is now consistent between Studio products.
- **CORE-9382** The **Format** ribbon layout is now consistent between Studio products.
- **CORE-9378** The **Data** ribbon layout is now consistent between Studio products.
- **CORE-9359** Your product now includes a new control bar: **Project Data**. This combines the power of previous bars to categorize and display files, loaded objects and plot data.
- **CORE-9391** When using the Text Importer, you can now import alphanumeric trace and absent values into a destination field that is numeric.

- **CORE-9340** Unload all overlays of a specific data type using a new **Sheets** and **Project Data** control bar menu option.
- **CORE-9301** Legend controls within various screens have been reverted to more popular legacy behaviour (with improvements) and restyled.
- **CORE-9277** Quick Filter drop down lists now inherit the current look and feel theme.
- **CORE-9252** Project data bar icons for the Plots and 3D folders have been updated.
- **CORE-9233** By request, flat-rendered wireframes are now less shiny.
- **CORE-9229** **Text Importer** scenario files (.dminsv) now appear in the Project Data control bar.
- **CORE-9228** If opening a Text Importer scenario, file detection has been improved and you can now browse for missing files.
- **CORE-9103** The **Project Data**, **Loaded Data** and **Holes** control bars now inherit visual themes.
- **CORE-9097** An issue that could make data picking difficult where data was precisely coincident with the section plane has been resolved.
- **CORE-9082** **Drillhole Importer** now recognizes "Hole_ID" as a BHID mapping type.
- **CORE-9014** All commands relating to the obsoleted **Visualizer** window have been removed from the application.
- **CORE-8999** Tooltips have been added to the **Group Lithology** and **Assign Lithology** tasks.
- **CORE-8980** When adding a new unique value legend item in the New Legend Wizard, you can now add any other colour to the current palette.
- **CORE-8839** Documentation on snapping to a grid has been improved.
- **CORE-8805** File case names are now preserved in the default overlay when dragging and dropping files into the 3D window.
- **CORE-8763** 3D properties and similar screens now use a clearer and expanded toolset for legend management. See you help file for more details.
- **CORE-8699** An issue causing the `insert-by-segment-length` to fail when working with large data has been resolved.
- **CORE-8673** Issues causing unpredictable selection behaviour (or presentation of selected data) in the Plots window have been resolved.
- **CORE-8654** Selecting the outer boundary of a plot sheet now enables the **Manage** ribbon (not the **Home** ribbon as previously).

- **CORE-8625 Drillhole importer** now recognizes more field names when automatically mapping to system fields.
- **CORE-8519** Studio Data, Report and 3D View ribbons have been made standard in all Studio products other than Studio Mapper.
- **CORE-8510** The **Project Data** control bar now displays files external to the project folder with the same vertical line indicator as the Project Files control bar.
- **CORE-8196** MODSPLIT can now output either **MODELOUT**, **FULLMOD** or both. Previously, both outputs were always generated.
- **CORE-8143** It is now quicker to close a project without saving it.
- **CORE-7746** A new command `digitise-doughnut` lets you create complex string data in relation to an external perimeter and one or more closed internal strings.
- **CORE-7506** The **Drillhole Planner** now inherits the current visual theme.
- **CORE-7272** The **Edge Editor** is now available in this product. Use it to dynamically adjust string edges.
- **CORE-6637** This update features early access to a preview of our advanced string digitizing controls. Constrain the azimuth, length and gradient of new string segments as you draw. Enable this beta functionality using the **Project Settings** screen.
- **CORE-5878** The Project Data bar now permits multiple item selection.
- **CORE-5550** `smooth-gradient` can now be used to fully smooth (start to end) preselected strings.
- **CORE-1878** You can now import or load multiple files in one operation using new multi-file options.
- **GEO-718** The layout of the **Drillhole Importer** screens has been improved.

Utilities & Supporting Services

- **CORE-9629** This update includes an upgrade to the mesh wireframing engine (2.0.2.54).
- **CORE-9577** Your product installs a major update to License Services (7.0). This introduces encrypted traffic options for enhanced data traffic security.
- **CORE-9536** The Start Page environment has been made more secure.
- **CORE-9481** Data Source Drivers now export virtual data columns.
- **CORE-9362** If using the DmFile SDK, reading and writing records is now twice as fast as before.

- **CORE-8826** You can now import MineScape prism models where data overlaps in Z.
- **CORE-8524** An encrypted traffic option is now available to License Services server administrators. Requires a compatible client installation (7.0 or higher).
- **CORE-8524** We have added a new driver! Import UBC voxel model data using the new **Geosoft** driver option.
- **CORE-8160** The MineScape Block Model Importer has been added to the Data Import screen as a new driver: "MineScape strata model".
- **CORE-6521** You can now import and load Leapfrog mesh and project model file data using a new Data Source Driver.
- **MSO-1558** Documentation for MSO version 5.0 has been completed for this version.
- **MSO-1581** Evaluation method descriptions on the **Report** screen have been updated for consistency and clarity.

Defect Fixes

- **GEO-854** An issue preventing a macro from being re-run in Dynamic Modelling has been resolved.
- **GEO-823** The **Update Surface** function in Categorical and Implicit Modelling no longer creates a new surface if one already exists.
- **GEO-808** Unexpected behaviour when docking an implicit command taskbar in the same group as Dynamic Modelling has been resolved.
- **GEO-807** transform-coordinates transformation libraries are now installed with Studio Geo, exposing all coordinate mapping options to the command.
- **GEO-779** Unloading a block model no longer prevents model colouring buttons from working correctly in the Dynamic Modelling workflow.
- **GEO-771** The vertical scrollbar in Dynamic Modelling no longer resets the position to the top each time you toggle an overlay.
- **GEO-764** "Stratigraphic" is now correctly spelt on the Configure Domain Task screen.
- **GEO-759** An error is now reported if an additional macro variable is missing during a Dynamic Modelling run.
- **GEO-754** In Dynamic Modelling, filtering the fault blocks object and then re-running the task now completes as normal and all data is present in the fault blocks object after processing.
- **GEO-753** Filtering domain wireframes items in Dynamic Modelling no longer causes Combined Solids generation to fail.
- **GEO-726** An issue causing the system to fail when running the Categorical modelling command, with all positive points filtered out, has been resolved.
- **GEO-666** Changing the combined solids or fault blocks name in Dynamic Modelling now updates the correct item in the Block Model task.
- **GEO-618** Default legends now persist between loading and unloading a data object.
- **GEO-549** The Combined Solid "default" field value has been replaced with the absent "--" indicator.
- **GEO-497** You can no longer edit locked task item properties in Dynamic Modelling.
- **STUDIO-7338** The fixed colour legend used, when colouring by group with the Create Contact Surfaces command, has been improved.

- **CORE-9919** An issue causing system failure, if v1 or v2 commands were used in conjunction with plane alignment options, has been resolved.
- **CORE-9875** An issue preventing the initial display of colour chips on the Assign Lithology screen has been resolved.
- **CORE-9868** An issue causing Deswik import to fail has been resolved.
- **CORE-9855** An issue causing issues when snapping and zooming in conjunction with vertical 3D scene exaggeration has been resolved.
- **CORE-9826** An issue preventing the successful import of Deswik wireframe data has been resolved.
- **CORE-9761** Picking of data symbols rendered in 2D in screen space can now be selected as normal.
- **CORE-9745** An issue causing `REBLOCK` to delete the input block model, if additive fields are used, has been resolved.
- **CORE-9717** The Project Data Bar's "Create from Loaded Data" menu option now works as expected.
- **CORE-9716** Grids and Sections folders can no longer be removed from the Project Data bar.
- **CORE-9714** An issue causing the incorrect rendering of 3D drillhole cylinders has been resolved.
- **CORE-9710** Modeless dialogs are now reset as expected when a default profile is reinstated.
- **CORE-9700** When translating strings, points or wireframes, decimal values now persist correctly between dialog sessions.
- **CORE-9673** 3D overlay group projections in Plots now react immediately to Project Data or Sheets control bar changes.
- **CORE-9670** The `UNFOLD` wizard now has context-sensitive help.
- **CORE-9653** When importing DXF/DWG points data, the 'Include Hatches' option is no longer displayed.
- **CORE-9642** 3D window axis and scale indicators now hide and show immediately following window configuration changes.
- **CORE-9631** The `INTEXT` process no longer stalls indefinitely if settings are unexpected.
- **CORE-9622** An issue causing `SELWF` to run more slowly than expected has been resolved.
- **CORE-9618** An issue causing move-points to pick an incorrect target has been resolved.

- **CORE-9615** An issue preventing the import of a Vulcan block model has been resolved.
- **CORE-9613** An issue causing incorrect display of Information Mode output, if the 3D view was orthogonal to the active section, has been resolved.
- **CORE-9595** The Command Toolbar contents are now more easily visible in Dark mode.
- **CORE-9582** The Move String command is now available again on the ribbon.
- **CORE-9562** Crash reports are now registering successfully in Freshdesk.
- **CORE-9537** DMX files input to transform-coordinates now generates output files usable by Datamine Supervisor.
- **CORE-9518** You no longer see an empty message box when trying to save an object to an open DMX file.
- **CORE-9517** The Text Importer is now storing the Delimiter correctly if not a comma.
- **CORE-9509** The Text Importer now reads fixed width values correctly.
- **CORE-9503** "Ignore Clipping" instructions at the overlay level are now applied immediately.
- **CORE-9499** An issue preventing string editing in plan view with >1 exaggeration in Z has been resolved.
- **CORE-9419** The Point Cloud Reconstruction wizard now automatically generates a scenario on entering a new scenario name.
- **CORE-9403** An issue causing the incomplete display of model cells in intersection at some section orientations has been resolved.
- **CORE-9370** An issue causing unexpected data rounding in `TRIFIL` has been resolved.
- **CORE-9357** `WIREFILL` now correctly interprets default plane information, and a `@PLANE` parameter is added to allow behaviour override.
- **CORE-9353** An issue causing `SELWF` to fail when processing retrieval criteria has been resolved.
- **CORE-9348** The select-perimeter command no longer behaves inconsistently when called from a script.
- **CORE-9264** An issue causing incorrect IJK values to be generated via the Text Importer has been resolved.
- **CORE-9236** An issue causing the incorrect alignment of a georeferenced image has been resolved.

- **CORE-9231** An issue preventing the successful reinstatement of a UI profile has been resolved.
- **CORE-9100** When transforming coordinates, and converting EPSG 5533 to WGS 84 and exporting to Earth, Lat/Long columns are no longer inverted.
- **CORE-9012** When transforming geographic coordinates, you can now generate output files on a non-primary drive.
- **CORE-8952** The zoom command now accurately centers the screen if the scene is exaggerated.
- **CORE-8794** An issue causing clipped block model data to be rendered invisible, when the clipping section deviates from the major axes, has been resolved.
- **CORE-8696** An issue causing smooth-gradient (smg) to fail with a large string data file has been resolved.
- **CORE-8632** Importing Deswik wireframe data now imports all available attributes. Previously some were not imported.
- **CORE-8582** An issue causing unexpected view navigation in scenes with vertical (Z) exaggeration has been resolved.
- **CORE-8259** 3D window section clipping is now reapplied correctly when the section corridor width is changed.
- **CORE-8052** An issue causing **SAMPOUT** to be created incorrectly when writing alphanumeric fields has been resolved.
- **CORE-7929** 3D plot overlay labels now react to clipping settings as expected.
- **CORE-6800** Studio now supports the concept of a temporary session-only data attribute.
- **CORE-5413 REBLOCK** no longer fails if there is a space in the file in the project folder.
- **CORE-5270** Unable to cancel (ESC Key) Set Section about a single point
- **CORE-5137** Adding a trailing space to a new project name no longer causes Studio to create 2 project folders.

Studio Geo 1.0 Release Notes

Note: Studio Geo generates Datamine files in the latest DMX format. You can still save data in the legacy DM format by setting the ".dm" format when interactively saving files, but all files generated by other functions are in the latest format.

Model with Confidence

Designed specifically for resource modellers and geologists, Studio Geo brings clarity, speed, and control to every stage of your geological modelling workflow. Whether you're incorporating fresh drilling data, refining interpretations, or reprocessing historical campaigns, Studio Geo connects directly to your geological data and responds instantly to change.

Built on Datamine's trusted Studio platform, Studio Geo offers seamless access to robust tools for data capture, modelling, validation, and reporting. Studio Geo isn't just a toolkit – it's a dynamic, end-to-end modelling environment, engineered to keep pace with the real world of geology.

What Sets Studio Geo Apart?

A Fully Configurable Workflow, Built by Geologists

Studio Geo gives you the power to design your modelling process the way you work, combining implicit and explicit tools to integrate complex geological, structural, and domain knowledge into a single cohesive model. Whether you're building stratigraphy, fault blocks, or vein systems, your workflow adapts to the geology, not the other way around.

Dynamic Modelling That Keeps Pace with Your Data

No more starting from scratch. Studio Geo's *Dynamic Modelling* engine automatically detects changes to your data, such as new drillholes, updated interpretations, or altered boundaries, and intelligently updates only the affected parts of your model.

Geologist-Led, Interpretation-Driven

From early stage exploration to detailed production geology, Studio Geo helps you interpret confidently and iteratively. Group and assign lithologies, flag key zones, refine contacts, and adjust modelling behaviour using a suite of intuitive tools

designed to help you make informed, geologically sound decisions.

Customisable Workflows Powered by Studio Macros

Build workflows that go beyond modelling. Integrate your own automation logic using Datamine's macro language giving you full control over how data is processed, incorporating complex tasks like compositing, declustering dynamic anisotropy, grade estimation (using COKRIG) and evaluation.

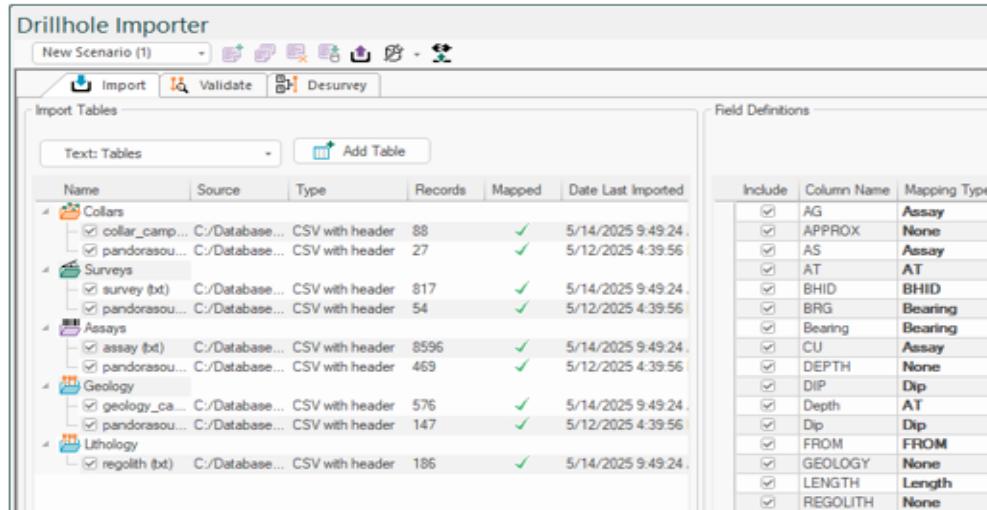
Built on Datamine's Proven Studio Core

Under the hood, Studio Geo runs on the same powerful engine trusted across the Studio suite so you gain access to robust CAD tools, data validation, plotting and 3D visualisation, all in a familiar environment.



Key Studio Geo Features

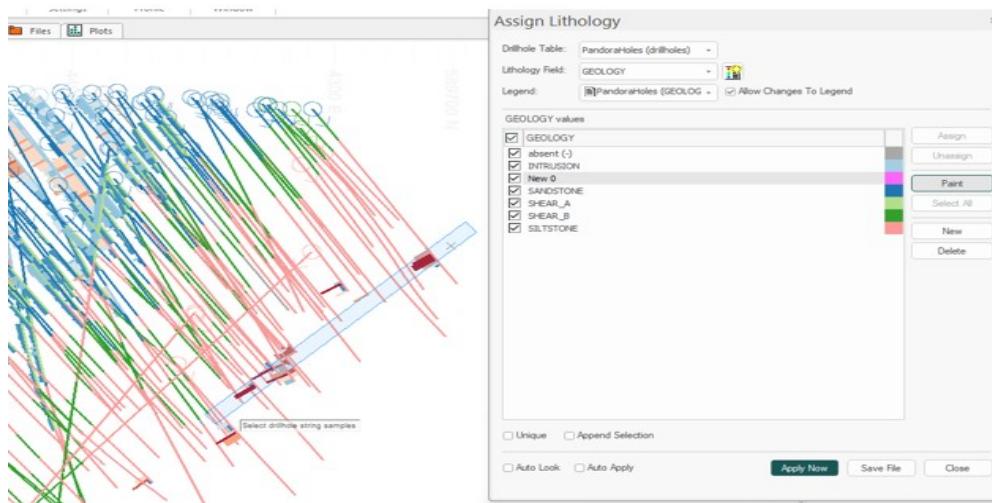
Connect Directly to Live Geological Data



The screenshot shows the 'Drillhole Importer' interface. On the left, the 'Import Tables' section lists various geological data sources: Collars, Surveys, Assays, Geology, and Lithology. Each source has a list of tables with their names, sources, types, record counts, mapping status, and last import dates. On the right, the 'Field Definitions' section shows a table mapping columns from the imported tables to specific geological parameters like AG, APPROX, AS, AT, BHID, BRG, Bearing, CU, DEPTH, DIP, Depth, Dip, FROM, GEOLOGY, LENGTH, and REGOLITH. The 'Mapping Type' column indicates whether the mapping is an 'Assay', 'None', 'AT', 'BHID', 'Bearing', 'Bearing', 'Assay', 'None', 'Dip', 'AT', 'Dip', 'Dip', 'FROM', 'None', 'Length', or 'None'.

Studio Geo's **Drillhole Importer** makes it easy to import, validate, and desurvey drillholes from text files, databases (like acQuire and Fusion), or ODBC connections. Define once, refresh forever with **Scenarios**. Fix errors automatically or export validation reports for traceability.

Interpret Geological Lithologies

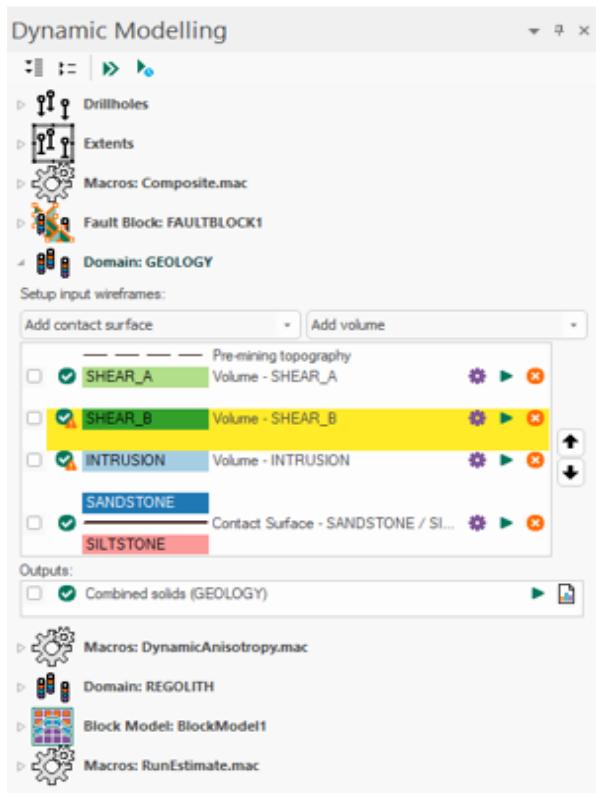


The screenshot shows the 'Assign Lithology' dialog box and a geological plot. The dialog box is titled 'Assign Lithology' and includes fields for 'Drillhole Table' (set to 'PandoraHoles (drillholes)'), 'Lithology Field' (set to 'GEOLOGY'), and a 'Legend' section. The legend shows a color key for geological units: absent (grey), INTRUSION (orange), New 0 (yellow), SANDSTONE (blue), SHEAR_A (green), SHEAR_B (red), and SILTSTONE (purple). The main plot shows a 3D view of a geological model with various lithologies represented by different colors and patterns. A specific area is highlighted with a red box, and a callout text 'Select drillhole string samples.' is visible.

Studio Geo's **Group and Assign Lithology** commands create simplified geological codes and paint geological interpretations while working with implicit modelling commands. Whether you're flagging ore zones, reducing code complexity, or recoding domains – Studio Geo makes it fast and flexible.

Dynamic Modelling

Model once, update often. **Dynamic modelling** integrates live geological data to create explicit and implicit surface models to generate a geological model and provide a robust, up-to-date block model of a deposit.



Dynamic Modelling is a highly configurable workflow including drillholes, extents, fault blocks, geological domains, block models and macro tasks. Automatic updates when new data arrives. Lock down tasks and track the status of the workflow.

Automatic Block Modelling

Block modelling in Studio Geo is fully integrated with your geological workflow. Automatically generate a prototype model that honours the extents of your data and aligns with existing models. Use the Block Model task to construct detailed models, with easy to specify sub-celling. Multiple domains and fault blocks are effortlessly merged into a single, coherent block model—ready for estimation or further processing via macros tasks.

Customize with Macro Tasks

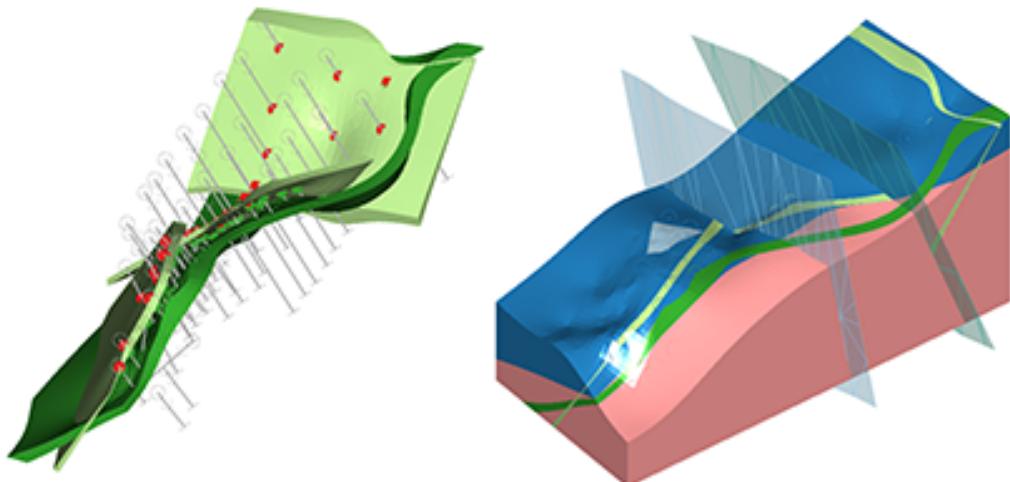
Studio Geo leverages Datamine's powerful macro language to give you full control over your modelling process. Customise workflows to suit your specific operational needs—directly within the Dynamic Modelling environment. Macros can access and manipulate the same data used by your models, enabling advanced tasks such as transforming drillholes with TRANSCO, compositing data using COMPDH, assigning densities with EXTRA, estimating grades via COKRIG, and evaluating domains using TONGRAD. With full integration, your modelling workflow becomes not only dynamic—but deeply flexible.

Core Strength

Studio Geo is built of the trusted Studio Core Platform and provides a wide range of data, editing, automation and visualization tools to put you directly in touch with your data. In Studio Geo, the user interface and its tools have been customized specifically to meet the needs of resource modelling Geologists.

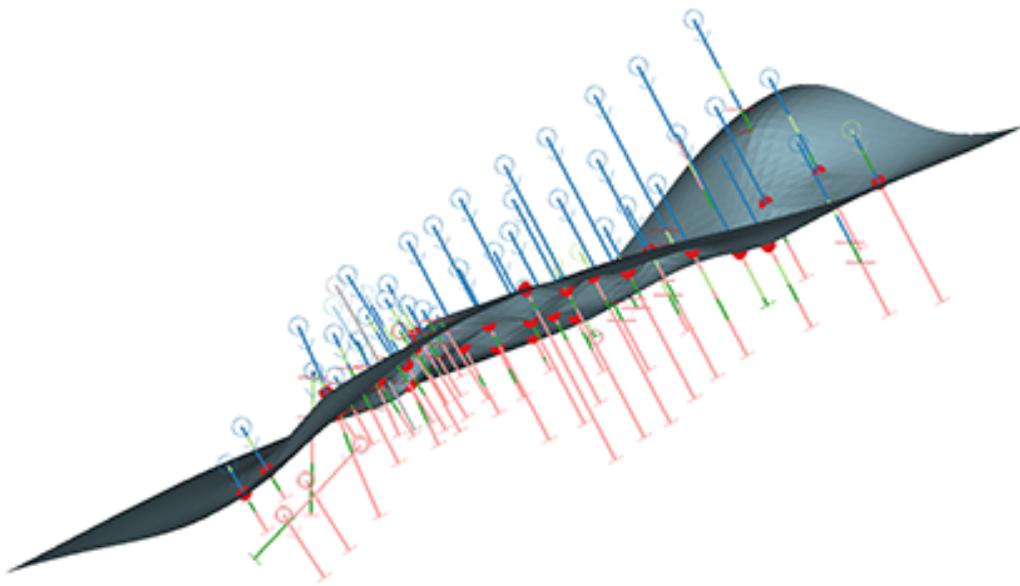
Implicit Modelling Tools for Geologists

Model Vein Surfaces



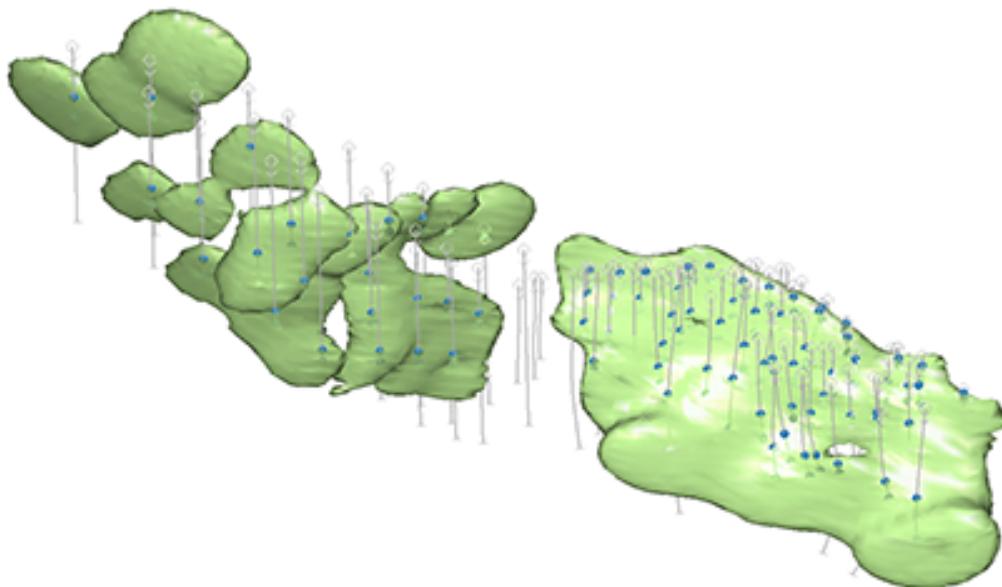
Define HW and FW using drillholes, mapping inputs or additional points. Control boundary, enforce best fit orientation, and model bifurcating veins. Specify age relationships within a Dynamic Modelling domain task. Choose which vein is offset by faults.

Model Contact Surfaces



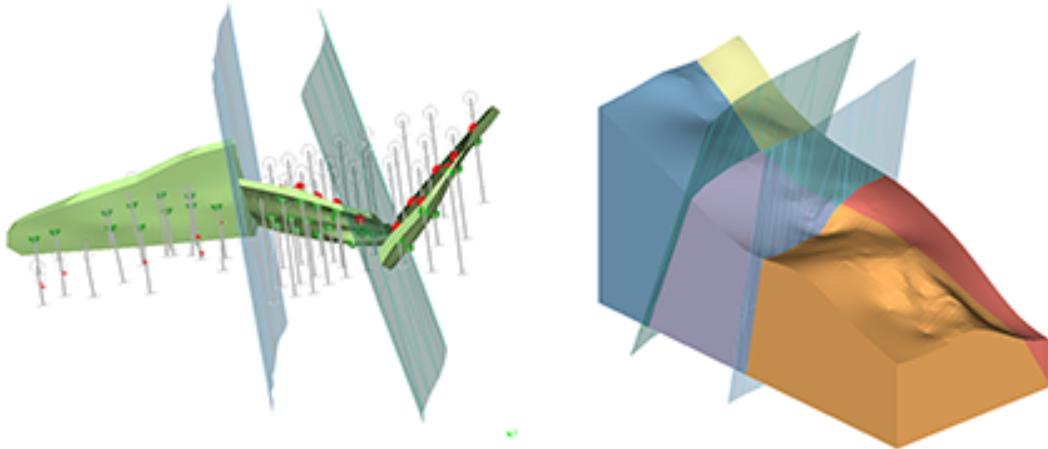
Rapidly model the lithological contact between rock types, ideal for stratigraphic modelling or modelling weathering horizons. Construct multiple surfaces within a Dynamic modelling domain task.

Model Categorical Structures & Grade Shells



Ideal for overturned and irregular units like intrusions or grade shells. Uses machine learning and Gaussian processing algorithms to build surfaces based on sample data, guided by spatially positioned ellipsoids to guide the surface generation.

Model Faults & Discontinuities



The **Model Faults** tool utilizes fault traces with varying dip and dip-direction controls to automatically construct fault sets, with complex cross cutting relationships.

Dynamic Modelling Fault Block task automatically constructs fault blocks from fault surfaces. Incorporate Faults into Vein and Contact Surface tools to offset Veins and Contact Surfaces.

Datamine enables efficient and sustainable mining through the application of world-leading technology and services.

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