DATAMINE

STUDIO UG

Optimise Your Underground Mine Design & Scheduling

STUDIO UG

Release Notes

Studio UG 3.2.85.0

STUDIO UG

DATAMINE

Contents

Overview

Datamine Studio UG meets all your underground design and data management needs.

Datamine's industry-leading systems form an unparalleled, integrated toolset for underground mine planning. Whether for an active mine production environment or a potential mine, from concept through to bankable feasibility stage, Datamine's solution will help you design, plan and schedule all aspects of your underground mine.

Studio UG 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 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

This document includes cumulative releases notes for Studio UG 3.2.85.0.

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

For the complete Studio UG documentation, see **https://docs.dataminesoftware.com/StudioUG.**

License Services - Important Information

Technical Note: TN00399

Datamine Studio products automatically install or upgrade **Datamine License Services**, a support service used to protect your software from unauthorized use.

License Services is a technology that governs access to your installed application through a running background service. It has a dedicated application – **Datamine License Manager** – to administer licenses on both client and server machines.

Studio products released after July 2023 are connected to the License Services version that comes with the Studio application. You can't go back to an older version of License Services that was installed before the one by your Studio application.

This modification doesn't impact License Services versions on dedicated license servers. Older server versions of License Services can still be used alongside newer versions of License Services on local machines hosting Studio applications.

To put it simply: Studio products created after July 2023 install a version of License Services that can't be downgraded on your local machine.

Why are we making this change?

To protect your software from unlicensed use and permit more flexible and accessible methods of licensing to be developed in the future.

Will my software work with a newer version of License Services (than Studio originally installed)?

Yes. If the local installation of License Services is newer than the one originally installed, your older Studio product(s) will continue to operate normally. A minimum version of License Services is required to launch your application.

Will future License Services versions be compatible with legacy Studio products?

Yes. This change doesn't break compatibility between License Services and versions of Studio products produced prior to July 2023.

If a locally-installed version of License Services is incompatible, what happens?

When your application is launched, a message is displayed indicating an upgrade to License Services is required. License Services can be downloaded from the Datamine Support Website as a standalone installation package, or it can be installed with another Studio product.

Does this affect servers running License Services (that aren't used to run Studio products)?

No. Server versions, providing they are already supported, continue to serve licenses as before. There's no need to upgrade license servers as a result of this change. This change enforces a minimum *local* License Services version constraint.

For more information on License Services, please refer to your help file, the Datamine Support website, or contact your local Datamine representative for assistance.

Studio UG 3.2 Release Notes

> **Important**: **Studio UG 3.2** requires **EPS 3.1.144** or later to export and synchronize schedule data. The latest version of EPS is available from the Datamine Support Website.

Key Improvements

Speedups & Optimizations

- FXS wall generation takes advantage of multiple cores, if available, speeding up processing.
- Interrogation will only process design elements that have been changed since the last interrogation process.
- The indexing of stopes during processing is much quicker than previous versions.
- Levels and drives are processed in parallel, significantly speeding things up.
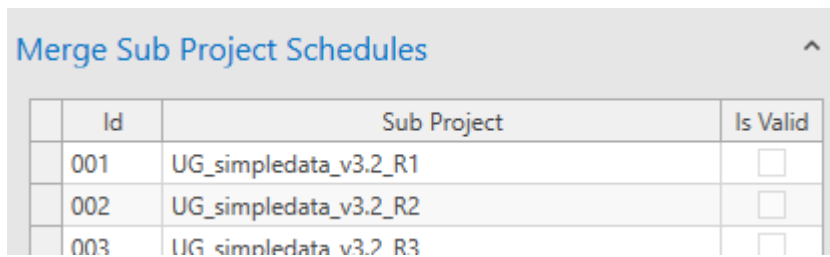
Differential EPS Synchronization

Design updates are a constant and unavoidable part of any project for both consulting and mine operations, and it very frequently happens after many hours (if not days) have been spent fine-tuning an EPS project, assigning resources, defining schedule constraint dates, baselines, work packages and even attributes and dependencies. Up to now, rework is required in EPS to reinstate previous schedule parameters, if design changes are made in Studio UG.

We've changed that; updating a design file no longer means unnecessary reworking of the schedule in EPS afterwards. Studio UG now lets you make design changes and commit only affected activity data to EPS, synchronizing the schedule with your design data much more quickly than before. This applies to FXS, OUT, CXS and WFM design types.

In addition, the date a task was created and last updated in EPS by UG are now exported during EPS transfer.

Merge Sub-project Schedules

You can merge the schedules of two or more sub-projects via the EPS panel using a new Merge option, presented if a master project is active. All EPS projects are merged into a single one, bringing production/text/code fields, filters, workpackages, etc. After sub-EPS projects are merged, you can load the merged EPS schedule and connect to it and update in the usual way.

Filter Design Data by Selection

Automatically select and optionally filter to show design data corresponding to specific attribute values, using new functionality of the **Design** panel.

Stope Drive Creation Grouping

Specify a grouping attribute when defining an automated stope drive creation rule.

Store and Reinstate Dependency Data Formatting

Custom dependency data visualization settings can now be stored within the project as 3D display templates, and instantly reinstated in a later project session.

Derived Activity Grouping

Group derived activities that come from the same design. There are new properties on the Derived Definitions screen to choose either no grouping (same as now), grouping of all tasks of the same ID, or partial grouping using a coincident Segment Count setting.

For example, 4m stopes were generated; however, you want to create a single backfill derived activity for a group with 10 stopes (=40m). You want to assign all stopes in this group with the same attribute - "GP = 1" - and read the volume of all stopes within the group.

Data Validation Improvements
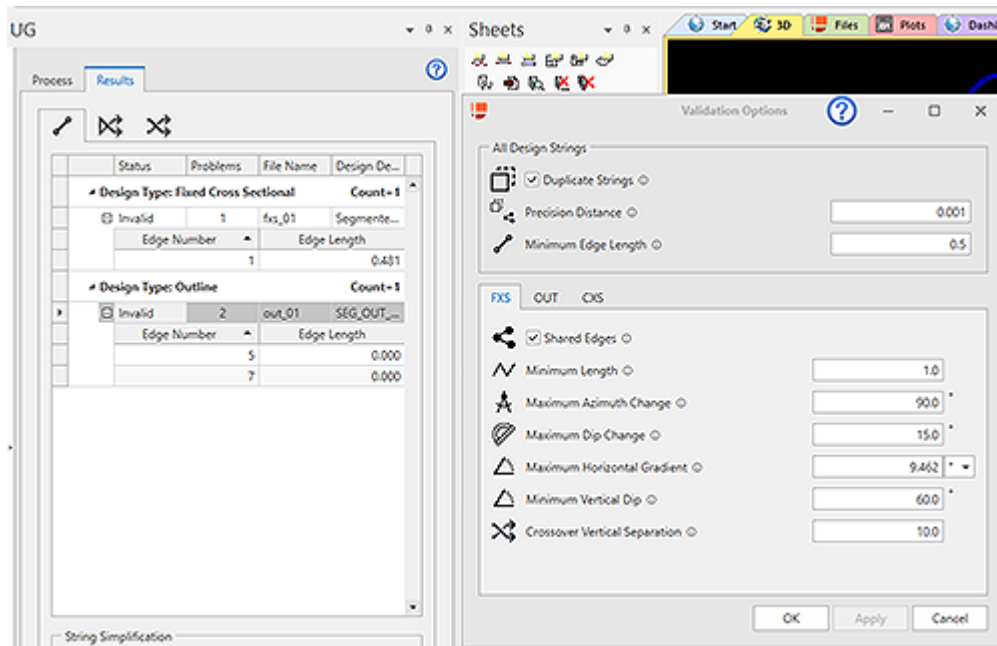
- The **Validation** panel is split into two areas: **Process** and **Results**. Process validation according to your own rules then view the categorized Results separately and optionally filter, highlight and zoom data to highlight potentially problematic data clearly.

- If string design data is found to be a full duplicate of other data, in that it is in the same string object and carries the same planning attributes, it is removed. Data that is partially duplicate (e.g., sharing the same 3D space but different attributes, is highlighted during validation and processing).

- During validation, string crossovers are reported as either "Crossover" (data from different strings of the same object intersects) or "Self Crossing" (a string is self-intersecting) error types.

- Validation results are listed alongside the design definition, not the *DesignID* value, which provides a clearer context for the result.

- During validation, if strings are automatically modified, a progress message is displayed.

Extrude Outline Strings Between Geological Surfaces

Constrain the extrusion of outline design strings between a hangingwall and footwall surface, via the **Advanced Extrusion** utility.

Attributes from Perimeters

A new command - **attributes-from-perimeters** - transfers attributes and values from closed perimeter strings to enclosed target data. Target data can be points, strings, drillholes or wireframes.

View & Data Type Quick Filters
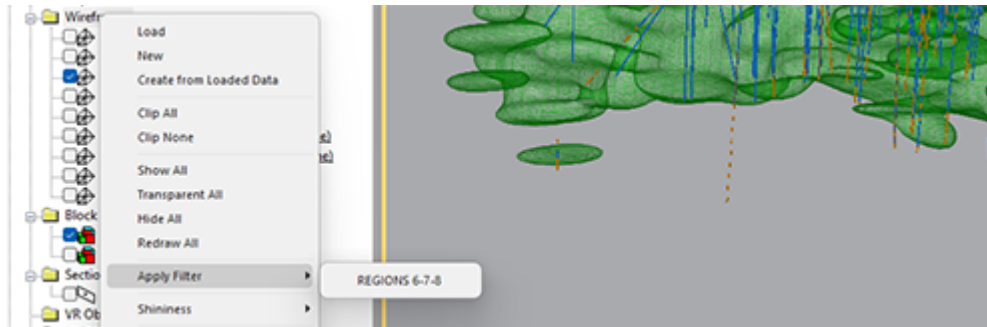
Apply previously saved quick filters to all overlays of a data type, or all overlays of an entire view, using new **Sheets** control bar menu options.

Point Cloud Reconstruction 2.0
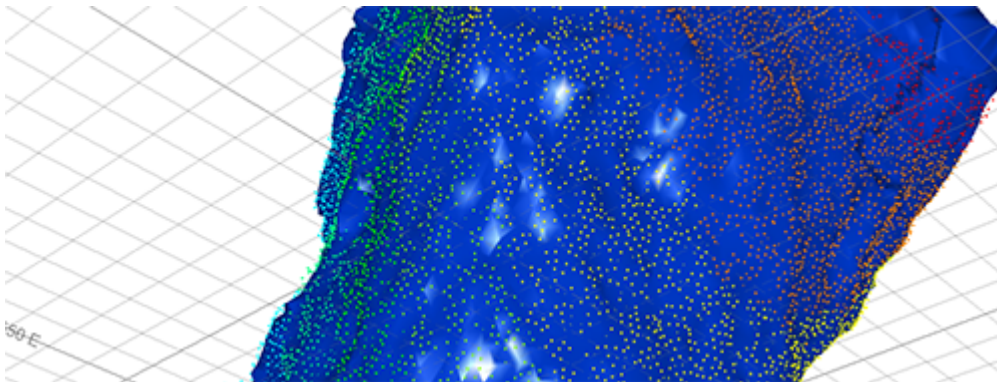
This release provides an update to our point reconstruction facility. You have multiple surfacing options at your fingertips, including interpolative and triangulation methods. We've kept parameters as simple as possible whilst maintaining flexibility, presenting a simple step-through process to accurately model your survey data.

You can find the **Point Reconstruction** console on the **Solids** ribbon (**Create >> From Points**).

Drillhole Data Selection Toggle

You can now use the quick key combination "tds" to swap between full drillhole and independent sample data selection in a **3D** view. A new command - toggle-drillhole-selection - is also available.

Calculate and Display Structural Orientations

Define and format 2D or 3D drillhole structural symbols using a new 3D properties screen. Choose up to 3 orientation angles and render core sample orientation data using a wide range of visualization options. **Calculate-structural-orientations** automatically calculates dip and dip directions from core logged alpha and beta angles. The resulting dip and dip direction attributes can be used to visualize angles using downhole structural symbols.

SWATHPLT Slices at any Orientation

The **SWATHPLT** process now lets you specify a rotation axis and angle to orient swaths in any direction in relation to the model and (optionally) input samples. Swaths are also output as distinct wireframe volumes, making it easier to see how the swaths interact with your data, and how grades and tonnages relate to model or sample slices.

HTML5-compliant, Online Documentation
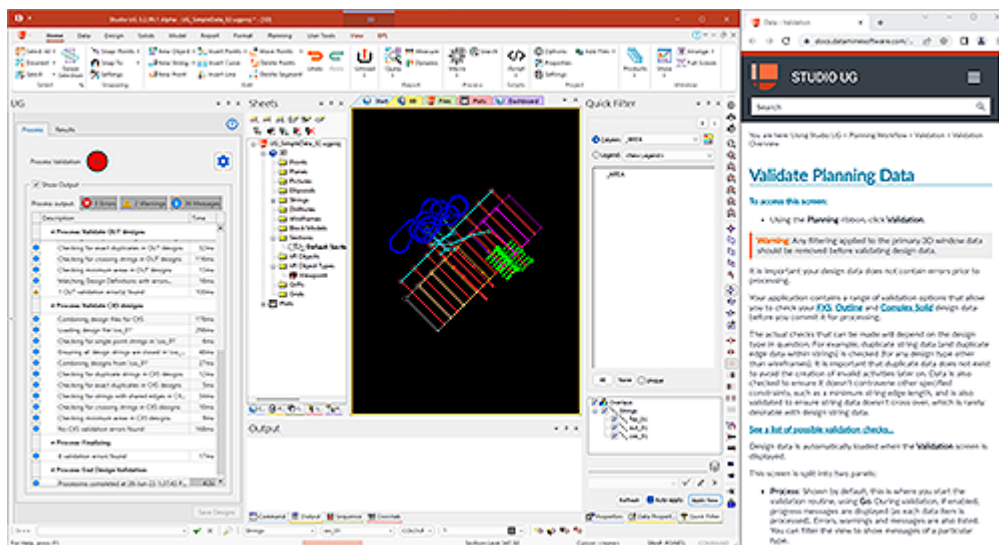
Access help via **docs.dataminesoftware.com**. This new online resource will, if an Internet connection is available (and you wish to access it), provide up-to-date system documentation that adapts to multiple target reading devices from laptops to phones. If no Internet connection is available, or you prefer to view compiled offline help, you can view the legacy installed content instead. Latest help is deployed instantly, meaning you benefit from the latest knowledge available at all times.

docs.dataminesoftware.com will benefit from a lot of innovative development in the future, including AI support, so it's worth taking a look!

All Improvements

Commands & Processes

- **Case: Multiple** Updating a design file no longer means unnecessary reworking of the schedule in EPS afterwards.

- **Case: UG-4101** "Filter on Selection Change" and "Zoom all when filter changes" now works correctly for the Boundaries file type.

- **Case: UG-4072** Activities that have been processed since they were last sent to EPS will be automatically synchronized with the connected schedule when updated.

- **Case: UG-3948** When a single design cannot be processed, the information written to the project log file is now more useful.

- **Case: UG-3948** You can now edit an attribute definition without closing the Rule screen.

- **Case: UG-3920** When adjusting segmentation parameters, resulting in creating more segments, the ones with the same previous *SEG_NUM* value retain the EPS information.

- **Case: UG-3896** Change the 3D shape(s) assigned to existing FXS design strings without changing predefined segmentation rules.

- **Case: UG-3828** Solids, points, dependencies and outline data can now be loaded independently via the Dependencies panel.

- **Case: UG-3805** FXS wall generation takes advantage of multiple cores, if available, speeding up processing.

- **Case: UG-3794** Define manual dependencies by selecting outline data in the **3D** view.

- **Case: UG-3740** Drive settings information is written to resulting drive strings in the assigned design file.

- **Case: UG-3706** Shape matching when processing solids is by *index* rather than *name*, which is a more robust method.

- **Case: UG-3697** Use 'sbp' (**wf-select-settings**) whilst the **Dependency** window is displayed.

- **Case: UG-3695** Conflicting strings in duplicate errors are shown in results of validation and processing, alongside related planning attributes and values. (Update 1)

- **Case:** UG-3685 Checks for changes in design strings are made at a more precise level (>0.0001).

- **Case:** UG-3680 During validation, string crossovers are reported as either "Crossover" (data from different strings of the same object intersects) or "Self Crossing" (a string is self-intersecting) error types.

- **Case:** UG-3655 It is much quicker to save dependencies and display the **Dependencies** panel.

- **Case:** UG-3650 During validation and processes stages, string data is removed if it exactly duplicates other data (same design file with the same planning attributes (matching & manual).

- **Case:** UG-3608 Choose which columns are displayed in the **Activities Data** report.

- **Case:** UG-3554 Select 3D entities based on the selection of current values in the manual attribute assignment panel.

- **Case:** UG-3540 The indexing of stopes during processing is much quicker than previous versions.

- **Case:** UG-3539 Levels and drives are processed in parallel, speeding things up.

- **Case:** UG-3517 If the orientation method for a definition is a wireframe, bulk change field values to set the wireframe surface to be used.

- **Case:** UG-3438 A space can be used in the text and delimiter of a naming convention.

- **Case:** UG-3399 Where attributes are applied within a solid in ambiguous circumstances, the system will choose an arbitrary value to attribute based on overlapping data.

- **Case:** UG-3274 Specify a grouping attribute when defining an automated stope drive creation rule.

- **Case:** UG-3182 Automatically select and optionally filter to show design data corresponding to specific attribute values, using new functionality on the **Design** panel.

- **Case:** UG-3175 You can now **merge** the schedules of sub-projects via the EPS panel. Consult your online help for more details.

- **Case:** UG-3073 Select multiple rows in the validation output list.

- **Case:** UG-3073 Group derived activities that come from the same design. There are new properties on the Derived Definitions screen to choose either no grouping (same as now), grouping of all tasks of the same ID, or partial grouping using a coincident Segment Count setting.

- **Case:** UG-2940 The point size on the current edge indicator string has been reduced.

- **Case: UG-2797** Interrogation will only process design elements that have been changed since the last interrogation process.

- **Case: UG-2626** Filtering in dependency synchronization has been optimized.

- **Case: UG-2584** Validation results are listed alongside the design definition, not the *DesignID* value, which provides a clearer context for the result.

- **Case: UG-2352** New attribute definitions are now provided by way of a simple popup screen, avoiding unintentional addition of duplicate attributes.

- **Case: UG-2346** Several changes have been made to the validation routines and user interface.

- **Case: UG-2339** Constrain the extrusion of outline design strings between a hangingwall and footwall surface, via the Advanced Extrusion utility.

- **Case: UG-2236** Schedule legend data is transferred to EPS automatically (EPS 3.1.122 required).

- **Case: UG-2234** It is much quicker to create dependencies for larger projects than previous versions.

- **Case: UG-1733** Validation results indicate where string data has been edited or deleted.

- **Case: UG-1521** Custom **dependency data visualization settings** can now be stored within the project as 3D display templates, and instantly reinstated in a later project session.

- **Case: UG-1496** During validation, if strings are automatically modified, a progress message is displayed.

- **Case: CORE-7579** **SWATHPLT** now lets you specify optional axes and rotation angles to orient swaths in any direction in relation to the model or samples.

- **Case: CORE-7569** Data objects derived from a database connection now display their connection string in the Data Object Manager.

- **Case: CORE-7478** **Converge-segments** has been refactored, making it faster and more robust.

- **Case: CORE-7447** **JOIN** supports up to 30 key fields.

- **Case: CORE-7390** **SELWF** now assigns attribute values based on the order of input wireframe data, reinstating legacy behaviour.

- **Case: CORE-7348** The **PTCLD2WF** process has been overhauled to accommodate a wider range of input point clouds.

- **Case: CORE-7254** **SLIMOD** has a tolerance to check for the creation of very small cells. A cell will not be created in the output file if it has a volume less than the parent volume of the output prototype multiplied by 0.00000001. This tolerance is

smaller than in previous versions to allow for prototypes with a large parent cell dimension in one of the axes.

- **Case: CORE-7180** The legacy command **make-dtm-from-objects** is obsolete.
- **Case: CORE-7172** MODSPLIT supports a *@TOLERNCE* parameter.
- **Case: CORE-7163** Choosing to auto-align a section after creation will not automatically zoom to fit all data in the 3D view.
- **Case: CORE-7141** **SELWF** supports a *@SETABSNT* parameter.
- **Case: CORE-7172**MODSPLIT has a *@TOLERNCE* parameter.
- **Case: CORE-7079** By default, the **Edit Attributes** screen defaults to selecting value options from selected legend items.
- **Case: CORE-7032** If the input files cannot be found in the **BOOLEAN** process, a warning is issued.
- **Case: CORE-7026** Choose to hide the 'Browse for file' prompt when loading a project with broken file references.
- **Case: CORE-7027** The **Extract Separate** command provides identical results when run interactively and via a script.
- **Case: CORE-7012**HOLES3D has a *@DESURVMD* option if run interactively. It is used to locate sample centers or end points on desurveyed arcs.
- **Case: CORE-6991** The **BOOLEAN** process provides more verbose output messages.
- **Case: CORE-6885** Section plane pierce points are not enabled by default.
- **Case: CORE-6883** A new command - **toggle-drillhole-selection** (quick key "tds") toggles between full drillhole and independent sample data selection in a **3D** view.
- **Case: CORE-6793** You are now only notified of excessively large legends if the total number of bins exceeds 1000. Previously, the limit was 100.
- **Case: CORE-6570** **snap-to-mid-string-switch** now affects snapping to both the mid points of strings and drillhole segments.
- **Case: CORE-6449** The **BOOLEAN** process will transfer attributes from input to output wireframes and strings.
- **Case: CORE-6148** **DECLUST** now supports retrieval criteria.
- **Case: CORE-5223** Enabling **Lock View**in a 3D window no longer adjusts the zoom setting of that view.
- **Case: CORE-5079** The **MINLAY** process has been obsoleted.
- **Case: CORE-1938** **Apply a template** to a 3D overlay by right-clicking it in a 3D view.

- **Case: CORE-1654 Lock any 3D view**, or 3D view segment using a 3D window context menu option.

- **Case: STUDIO-1095 COMPDH** can composite both down and up holes, using a new @REVERSE parameter.

- **Case:STUDIO-924calculate-structural-orientations** calculates dip and dip directions from core logged alpha and beta angles. The resulting dip and dip direction attributes can be used to visualize angles using downhole structural symbols.

User Experience

- **Cases: Various** Your application has been rebranded, including documentation, splash screen and application icons.

- **Case: UG-4075** Dates in report dialogs are now shown in your local format.

- **Case: UG-4030 Naming Convention Assignments** has been removed from the **Settings Bar** and added to **Master Settings** panel.

- **Case: UG-3929** New icons have been added for **Save Templates** and **Delete Templates** functions.

- **Case: UG-3851** The reference to 'Wireframes' in the **Derived Activity Definitions** screen changes to "Solids".

- **Cases: UG-3881**, **UG-3830** The **Validation Options** screen has been reorganized to make it more compact.

- **Case: UG-3851** Validation checks for shared edges (FXS, OUT, CXS).

- **Case: UG-3829** Studio UG visual themes have been updated to match the latest available options.

- **Case: UG-3761** Highlighted 3D object items are more clearly visible.

- **Cases: UG-3678**, **UG-3676** The **Validation** panel is split into two areas: **Process** and **Results**. Process validation according to your own rules then view the categorized Results separately and optionally filter, highlight and zoom data to highlight potentially problematic data clearly.

- **Cases: UG-3341**, **UG-3940** References to "activity outlines" have been changed to "boundaries" throughout the user interface.

- **Case: UG-3075** The **Design Validation** panel features expandable command groups.

- **Case: UG-3051 Adjust-to-gradient** can be accessed using the **Design** panel's **Conditioning** menu.

- **Case:** UG-2846 When the **Design Definitions** screen is opened, the active tab will be the first design type found containing design data, or the first tab if no data is found.
- **Case:** UG-2587 The **Export to Ventsim** screen is restricted to a maximum height.
- **Case:** UG-1829 Buttons throughout the planning panels have been enhanced with icons and enhanced tooltips.
- **Case:** CORE-7405 The deprecated command "Undo Last DTM" is no longer available via the ribbon system.
- **Case:** CORE-7306 Desurveying is no longer automatically performed when importing through the Data Providers.
- **Case:** CORE-7267 The **Command** toolbar icons have been updated.
- **Case:** CORE-7183 Look and feel options have been updated, and a new default theme is applied.
- **Case:** CORE-7150 Dynamically resize the components of the Quick Filter control bar.
- **Case:** CORE-6792 Display up to **1000 drillhole names** for each drillhole object in the Sheets control bar.
- **Case:** CORE-6735 Hover your cursor over the object name in the **grid-dtms** screen to display the name in full.

Mineable Shape Optimizer v4.7

- **Case:** MSO-1386 When using U-Direction of the Nested Cutoff Merge option, there is now a new Max Gap Angle parameter.
- **Case:** MSO-1385 When using Prism Frameworks, on the Refinement Tab, you can now configure Trough Undercut and Overcut at the same time. There is also a Max Distance value.
- **Case:** MSO-1383 When using the Nesting Cutoff Stope Merge Post-Processing option, there are 2 new sub-options for this feature: Merge Zone and Merge Lode.
- **Case:** MSO-1382 On the Options tab, you can now configure Stope Cut options.
- **Case:** MSO-1381 You can now configure up to 3 Exclusion Materials.
- **Case:** MSO-1380 MSO is now powered by version 5.1 of the AMS StopeOpt engine.
- **Case:** MSO-1375 A new "Block Model Bounding Wireframe" scenario option can be used to optimized areas of a model constrained by a wireframe.
- **Case:** MSO-1370 The **Optimized Regular** Axis Increments allow for a value of 0, to allow you to test stope sizes, but not section or level increments.

- **Case:** MSO-1365 Quad strings are no longer limited to 5 points. They can now include up to 25 points.
- **Case:** MSO-1361 When accessing the **Run** panel after recent changes, choose if changes are retained for the next run or not or cancel the panel swap.
- **Case:** MSO-1346 Define **Sub-Stope** shapes by size for **Variable Fractional Subshapes**.

Note: **MSO** users are in for a treat in 2024 as a completely new console is coming! Follow Datamine on LinkedIn for the latest news on this exciting project.

Utilities & Supporting Services

- **Case:** CORE-7451Rename multiple license solutions using a standard naming convention.
- **Case:** CORE-7312 The License Services screen no longer appears behind the active Studio application if initiated by the third-party EPS application.
- **Case:** CORE-7193 The **Dependencies Layer** no longer reverts to 'Default layer' when refreshing the EPS schedule.
- **Case:** CORE-7130 If an attempt is made to import a Vulcan .bmf file that is larger than our Maptek-provided driver can accommodate, a message is issued before processing and the operation is aborted.
- **Case:** CORE-6816 A maximum fields check and warning display for Vulcan, Surpac, Text, MineSight and Micromine drivers.
- **Case:** CORE-6648 When importing data via the **Text driver**, only a single legend is created (based on the first attribute field). In previous versions, a legend was created for each detected field in the incoming file, leading to an excessive number of stored legends.
- **Case:** CORE-5020 When importing **Micromine block models**, field names are no longer limited to 9 characters. They can be up to 24 characters long.
- **Case:** CORE-5019 The **Data Converter** now converts MineSight block models to .dm format.

Documentation & eLearning

- **Case:** UG-3860 The **Advanced Extrusion Control** screen has a help button and context-sensitive help page.
- **Case:** CORE-7414 The **PICREC** help file includes information on disambiguating reserved keywords.

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- **Case: CORE-85** Your application is supported by online, HTML5-compliant help. If an Internet connection is available (otherwise, locally-stored help content displays), context and conceptual help is displayed via Datamine's online documentation website at **docs.dataminesoftware.com**.

Additional Defect Fixes

- **Case: UG-4042** The **Interactive Ramp Tool** ribbon toggle now shows the correct activation state.
- **Case: UG-4021** A data-specific issue causing exaggerated volumes to be calculated when processing FXS strings has been resolved.
- **Case: UG-4019** The **Create Line Between** automated rule now works as expected it was originally created as a copy.
- **Case: UG-4017** Exception handling and notification has been extended in this version.
- **Case: UG-3998** A project-specific issue causing wireframe processing to fail has been resolved.
- **Case: UG-3988** An issue preventing the modification of an attribute data type for an 'automatic by file' attribute, has been resolved.
- **Case: UG-3954** You can no longer save changes to **Project Property Definitions** while the **Project Default** values screen is open.
- **Case: UG-3951** The **Naming Conventions** screen displays context-sensitive help.
- **Case: UG-3951** The date a task was created and last updated in EPS by UG are now exported during EPS transfer.
- **Case: UG-3922** It is no longer possible to select a "weighted on" property that is not itself weighted.
- **Case: UG-3891** Absent values are displayed as expected in the standard pivot table output.
- **Case: UG-3878** Modifying naming conventions in a master project updates the compatibility status.
- **Case: UG-3870** An issue causing system instability when adding and moving a new item into a naming convention has been resolved.
- **Cases: UG-3803, UG-1060** If improper parameters cause excessively long activity durations (10,675,199+ days), the application no longer halts unexpectedly.
- **Case: UG-3785** A data-specific issue preventing processing has been resolved.
- **Case: UG-3779** The advanced FXS segmenting method is working correctly.
- **Case: UG-3778** When changing the settings type of a design rule, associated data is automatically unlocked if appropriate.
- **Case: UG-3772** You can no longer create a dependency with the same start and end location.

- **Case: UG-3768** For CXS designs, activating "Show Design String Sequence" no longer causes filtered out designs to appear.
- **Case: UG-3766** The selected filter is set to *<no filter>* when associated data is unloaded.
- **Case: UG-3757** A closed FXS string no longer causes system instability during processing.
- **Case: UG-3736** If you choose not to create outlines for derived activities, an empty file is no longer produced.
- **Case: UG-3731** The **Edge Editor** no longer remains active when the target string is deselected.
- **Case: UG-3726** When analyzing the compatibility of sub projects, a confusing "Invalid. Name is required" message is no longer displayed.
- **Case: UG-3699** The **Depleted Solids** folder of the Project Data bar is correctly synchronized with project changes.
- **Case: UG-3667** Renaming a design definition updates activity names that use *DESIGNDF*.
- **Case: UG-3667** .zip files are no longer displayed in the Managed Databases | MSO folder of the Project Data bar.
- **Case: UG-3604** Validation results are ordered based on a suggested resolution sequence.
- **Case: UG-3557** **Interactive Ramp Tool** can add a curve point if the start and end point have same X and Y coordinates.
- **Case: UG-3551** The **Load Schedule** button is correctly disabled if the schedule file is no longer available.
- **Case: UG-3550** Renaming a design file via the Project Files control bar no longer causes an incorrect validation alert.
- **Case: UG-3515** Read field values from a wireframe with brackets in its name.
- **Case: UG-3542** An issue causing validation and attribute matching to fail when importing design definitions has been resolved.
- **Case: UG-3368** An issue causing the system to fail, if an EPS schedule is closed whilst the "Would you like to leave the schedule open?" prompt is displayed, has been resolved.
- **Case: UG-3201** When importing data from the EPS schedule, output messages are shown instantly.
- **Case: UG-3200** The global selection check box state in the **Dependencies** panel (Data Type grid) correctly reflects the status of the items below.

- **Case:** UG-3173 The Unload Schedule option is no longer incorrectly active after saving the active schedule as a template.
- **Case:** UG-3063 An issue preventing model depletion if a model file has spaces in its file name has been resolved.
- **Case:** UG-3021 To prevent unexpected data loss, Studio UG can no longer connect to an open EPS schedule.
- **Case:** UG-2894 The system no longer halts unexpectedly if a block model is no longer available for validation, after initial analysis.
- **Case:** UG-2826 Resynchronize as expected with the EPS default layer.
- **Case:** UG-2670 If an input model is not sorted on IJK (a requirement for processing) a message is now displayed when processing.
- **Case:** UG-2668 An unexpected error when visualizing search geometries with specific project settings.
- **Case:** UG-2607 3D view formatting is retained after saving design data.
- **Case:** UG-2310 Cross-overs for CXS are highlighted when running **Data Validation**.
- **Case:** UG-2232 When a filter is applied via a dependency filter, a message is sent to the **Output** window if an internal dependency is overridden.
- **Case:** UG-2222 An issue preventing Validation from detecting duplicate strings has been resolved.
- **Case:** UG-2037 Duplicate strings in CXS data will no longer be processed or reprocessed. Instead, a warning is issued during processing, indicating that duplicate data has been found.
- **Case:** UG-1177 Batch processes can process file names containing all characters other than those prohibited by the operating system, i.e. \ / : * ? " < > |
- **Case:** MSO-1378 ELOS dilution settings are now saved when using the Boundary Surface Framework.
- **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-7684 An issue causing **SELWF** to produce unexpected output, if both input sample and model attributes have the same name but different lengths, has been resolved.
- **Case:** CORE-7682 An issue causing system instability when changing the format of a block model overlay in the Plots window has been resolved.
- **Case:** CORE-7622 Global selection buttons in the Data Provider table selection screen are now operational.
- **Case:** CORE-7436 @BOUNDTYP is no longer supported in the PTCL2WF process.

- **Case: CORE-7304** An issue in **SELWF** (used by **WFCODE**), causing legacy automation scripts to fail, has been resolved.
- **Case: CORE-7300** MineSight points data can be loaded by script.
- **Case: CORE-7291** **SELWF** selects inside a wireframe correctly when the plane is not set.
- **Case: CORE-7255** If querying multiple strings the correct area is calculated for non-convex shapes.
- **Case: CORE-7252** Retrieval criteria in **SELWF** are working as expected.
- **Case: CORE-7250** An issue causing system shutdown, when clicking **OK** in the acQuire drillhole database import wizard, has been resolved.
- **Case: CORE-7245** The **Text** driver no longer fails when the number of fields exceeds the maximum limit.
- **Case: CORE-7216** The **Apply Filter** option no longer appears in **Sheets>> Plots** menus.
- **Case: CORE-7213** A legacy data driver problem causing system shutdown when reopening projects has been guarded against. In this version, a warning of unexpected driver input is issued, but all loadable project items are loaded afterwards.
- **Case: CORE-7192** An issue causing system instability, when closing a project with the **Extract Objects** screen displayed, has been resolved.
- **Case: CORE-7178** The **Values** drop-down list in the **Edit Attributes** screen initializes correctly.
- **Case: CORE-7171** Breaking strings with other strings (BKI or BKS) correctly breaks the target string.
- **Case: CORE-7145** After breaking a string with another string (BKI or BKS), attributes are edited correctly on resulting string segments.
- **Case: CORE-7139** In **COPYMOD**, default values of the new origin and angles are set correctly set when angles and origin are blank.
- **Case: CORE-7127** **PTCLD2WF** no longer fails when the active user account name contains a ".".
- **Case: CORE-7126** An issue preventing the successful drag and drop loading of DWG and DXF files has been resolved.
- **Case: CORE-7122** An instance of system instability, if closing a project whilst the **wireframe-volume** screen is displayed, has been resolved.
- **Case: CORE-7119** An issue causing system failure, when unloading objects via the **Data Object Manager**, where table data is selected, has been resolved.

- **Case: CORE-7117 SELWF** output is consistent between multiple runs with the same settings and data.
- **Case: CORE-7091** Internal block model blocks are rendered correctly in the 3D view when clipping.
- **Case: CORE-7094 edit-model-cell-values** responds correctly to data unload operations.
- **Case: CORE-7077** An issue causing "Error 39" in **License Services** has been investigated and resolved by adding support for Dinkey Pro driverless dongles.
- **Case: CORE-7070** An issue causing **WFCODE** to generate only a single record when @ALLPTS=1 and @SETABSNT=0 has been resolved.
- **Case: CORE-7069** The **Edge Cylinder Segments** label is not truncated in Tools >> Options > 3D.
- **Case: CORE-7054** Messages no longer overlap on product splash screens.
- **Case: CORE-7050 wf-intersections** generates string data with the expected inherited attributes.
- **Case: CORE-7031** An issue causing system instability, if cancelling the **Image Registration** screen before the specified image has loaded, has been resolved.
- **Case: CORE-7028** The 3D view no longer unexpectedly shifts view position after using the **View Controller**.
- **Case: CORE-7025 DESURV** no longer terminates with confusing message if number of survey points in a hole exceeds 10000.
- **Case: CORE-7024** In **DESURV**, *@DESURVMD=0* no longer resets all of the coordinates to 0 if *@ENDPTS=0*.
- **Case: CORE-7018** The **PTCLD2WF** process will run correctly on machines that have no previous Studio installation.
- **Case: CORE-7009 HOLES3D** does not reset the first survey record to *AT=0* if there is no *AT=0* record.
- **Case: CORE-6935** DTM creation creates a surface where coincident points exist.
- **Case: CORE-6987** Object data overlays are rendered in the correct way when object opacity is reduced.
- **Case: CORE-6983 DESURV**: Under some circumstances zero length or horizontal samples when using *@ENDPTS=1* could result in corrupted B0 ouput values. This has been resolved.
- **Case: CORE-6979** The **BOOLEAN** process generates identical results to the **wireframe-intersection** command.
- **Case: CORE-6978 DILUTMOD**'s subcell checking routines provide useful user feedback instead of creating (potentially) arbitrarily large model outputs.

- **Case: CORE-6915** An issue causing system failure, when resetting the customization profile from **the Quick Access** menu, has been resolved.
- **Case: CORE-6877** The system no longer halts unexpectedly if the file source of a histogram chart cannot be found.
- **Case: CORE-6839** An issue causing incomplete export to Surpac .mdl format has been resolved.
- **Case: CORE-6822** Adjusting the scale of a plot no longer causes unexpected repositioning of labels.
- **Case: CORE-6818** An issue preventing accurate data picking in 3D views, when high magnification has been applied, has been resolved.
- **Case: CORE-6814DECLUST** no longer automatically lists X, Y and Z as default coordinate fields.
- **Case: CORE-6807** A data-specific issue causing system shutdown after importing a 3D sheet template has been resolved.
- **Case: CORE-6781** In the create-new-legends command, changing the **Precision** value (of a **Numeric Range** legend) no longer results in the custom defined Range Filter being reset back to the defaults.
- **Case: CORE-6774** An issue causing the splash screen to flicker on startup has been resolved.
- **Case: CORE-6730** The **Edit Attributes** screen correctly references the ellipsoid data type.
- **Case: CORE-6720** An issue causing mouse wheel zooming to fail, after box selection and panning in 3D, has been resolved.
- **Case: CORE-6617 wf-intersections** adds expected data attributes to generated strings.
- **Case: CORE-6607** An issue causing the system to fail after running **make-dtm-from-object** has been resolved.
- **Case: CORE-6594** An issue causing system shutdown when moving points with the snap mode set to 'Lines' has been resolved.
- **Case: CORE-6548** An intermittent problem causing an unclean shut down of the system after importing files via the Vulcan driver, has been resolved.
- **Case: CORE-6433** Mouse scrolling when editing date ranges in the **Create New Legend** wizard is no longer using inverse controls.
- **Case: CORE-6418** An issue causing scale locking in the **Plots** window to fail has been resolved.
- **Case: CORE-6368** Context sensitive help for the Fault Modelling panel appears correctly.

- **Case: CORE-6167** The dialog labels for the **MODTRI** process have been corrected.
- **Case: CORE-6166** The dialog labels for the **BLKTRI** process have been corrected.
- **Case: CORE-6160** The **Project File** control bar's **Pictures** folder, if displayed, displays a title as expected.
- **Case: CORE-6138** A data-specific issue causing **SELPER** to fail to sort the output by IJK has been resolved.
- **Case: CORE-6137** An issue causing unexpected A0 and B0 results in output from **COMPDH** has been resolved.
- **Case: CORE-6131** An issue that could cause **create-ramp-string** to fail with a particular gradient, radius and distance end limit settings has been resolved.
- **Case: CORE-6128 break-strings-at-intersections** produces string breaks in expected locations.
- **Case: CORE-6124** An issue preventing the import of a large number of 3D display templates in one action has been resolved.
- **Case: CORE-6101** If a plot sheet is created without others existing, the legacy **Design** window is no longer displayed at the same time.
- **Case: CORE-6095** Running the **unlink-triangle** command will automatically deselect any previously selected triangles.
- **Case: CORE-6080** The **Texture from Object** setting is correctly applied from a visual display template.
- **Case: CORE-6072** The URL to project startup scripts is decoded to remove escape sequences.
- **Case: CORE-6060** An issue, that could cause system failure when applying a 2D label of *BHID* to loaded dynamic drillholes, has been resolved.
- **Case: CORE-6043** The grid value for the weighting column is no longer reset if it has been predefined (e.g. from **Evaluation** settings).
- **Cases: CORE-6039, CORE-5674 Linestyle** and **Thickness** attribute values are exported to DXF and DGN as expected.
- **Case: CORE-6003** Text boxes are displayed as expected when switching back to **Plots** from the **Print Preview** window.
- **Case: CORE-5626** During volumetric block modelling, records are no longer saved in the control files if they have empty or non-existent filenames.
- **Case: CORE-5502** The **Plots** window correctly honours *SCALE* when a section definition file is applied from a script.
- **Case: CORE-5238** An issue causing the **Data Converter** to fail when accessing it via script has been resolved.

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- **Case: CORE-5209** An issue causing alphanumeric field data to be imported incorrectly via the ODBC v2 driver has been resolved.
- **Case: CORE-4632** **WFCODE** no longer incorrectly sets alphanumeric zone fields to numeric if *@SETABSENT=1*.
- **Case: CORE-4333** Drillhole data selection in the 3D window is now more accurate with large data and high scaling.
- **Case: CORE-4238** A typographic error in the **E-W Section** ribbon button tooltip has been corrected.
- **Case: CORE-4085** In **COMPBE**, where *FROM-TO*s are greater than *@MINGAP*, compositing will continue at the next interval of the same hole, and won't skip to the next BHID as previously.
- **Case: CORE-3694** An intermittent issue causing 3D window zooming to fail after filtering has been resolved.
- **Case: CORE-3189** Unexpected rounding results in the *A0* and *B0* columns when using **COMPBE** have been resolved.
- **Case: CORE-3076** The ODBC v2 driver permits alphanumeric columns to be exported in Microsoft Access format.
- **Case: CORE-2692** Spinner button behaviour in **Tools >> 3D >> Initial States** is as expected.
- **Case: CORE-2405** **COMPDH** produces accurate results when the *EOH* interval is 0.
- **Case: CORE-1449** An issue causing **COMPBR** to become unresponsive with certain interval values has been resolved.

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