

Comprehensive Open Pit Design & Scheduling

STUDIO OP



**Release
Notes**

Studio OP 3.0

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Published: 05 June 2024

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Overview



Studio OP contains functionality for both medium- and short-term planning of open pit mines.

Studio OP has tools for the design of pits and generation of mining surfaces, and allows you to generate mining blocks from pit and phase shapes. Mining blocks can be evaluated against a block model and scheduled to generate medium- and short-term operational plans. If the model contains strategic planning information such as pushback or sequencing information, this can be used.

Studio OP 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

Release notes for other versions of Studio OP are available via the Datamine Customer Support website. For more details, see <https://www.dataminesoftware.com/support/>.

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



Studio OP 3.0 Release Notes

Key Improvements

Auto-Design Improvements

Studio OP's renowned automated pit and dump design tools continue to evolve with this update:

- **Automated Pit Design and Dump Design** task panels have been overhauled to simplify the process of generating adaptive or fixed roads. By combining the 'new' and 'edit' command groups, it is now much easier to create or select a road for modification.

This includes several changes to the **Berm Tapering** (now merged with the Road Overrides panel) and **String Conditioning** panels to reduce screen clutter and make the automated design process more straightforward.

- **Define road override settings at either the pit or bench level.** A new Road Overrides screen lets you define, per adaptive ramp/road, specific tapering and endpoint settings.

This can be set for the entire road, or even at bench elevations, overriding all other tapering and flat road distance settings related to the design. You can set up a pattern too, say, to create a safety ramp for a particular spiral road, every 5th bench.

- **Generate a pit void top surface when generating phase shell contours.** This could be useful, say, to capture pit rim ground data during automated design calculations.
- **Automatically convert absent values to a different value on validating a model for the planning managed tasks.** You can also convert a non-absent value to be absent (e.g. a particular void value code) and convert any negative number to a consistent value.
- **A Lift Sections toolbar** has been introduced to support dump design operations.
- **Generate intersection strings** where pit design surface data intersects with the topography, contact surface or both.
- Generate a persistent object and overlay for generated auto pit design data, for use in downstream tasks, using the new **Create Overlays** feature.



- Toggle filleting for individual bench or lift 'projections' using a new **Fillet Projected Contour** string conditioning setting.
- Control how projected toe and crest string are formed where severe angle changes occur, using a new **Projection Method** option (**Advanced** tab).
- Toggle the display of slope region boundary strings in automated design tasks.

Auto Scheduler Improvements

- Studio OP will indicate if a partial solution was found by the Auto Scheduler. This partial solution can still be used to schedule blocks, if appropriate.
- Define asynchronous attributes; blocks with the same attribute value will be fully mined before the next task is performed.
- A new Schedule option is available – “Merge with Reclaim”. This will merge new data with existing but lock the material mined from the pit, thus only allowing reclaim to occur from within the pre-scheduled material.

Auto Design Templates!

Configure your automated design view using simple to create and store "template sets".

Define visual properties for each category of automated design data (constraint strings, fixed roads, surface etc.) and quickly generate a single template set reference that can be reinstated instantly. Perfect for visualizing automated design projects in different ways. You can even export your set configurations and use them in other projects.

You can access the new template set editing tools on the **Design** ribbon.

Dedicated Auto-Design Windows

Auto pit and dump design overlays and unmanaged objects are no longer unloaded when the design task ends, allowing the overlays to be used as visual references in other tasks.

New Legend Tool

The **Create New Legend** tool is introduced with this update. Featuring simplified but extended legend creation controls, including interactive bin adjustments for range legends with respect to a value frequency histogram.

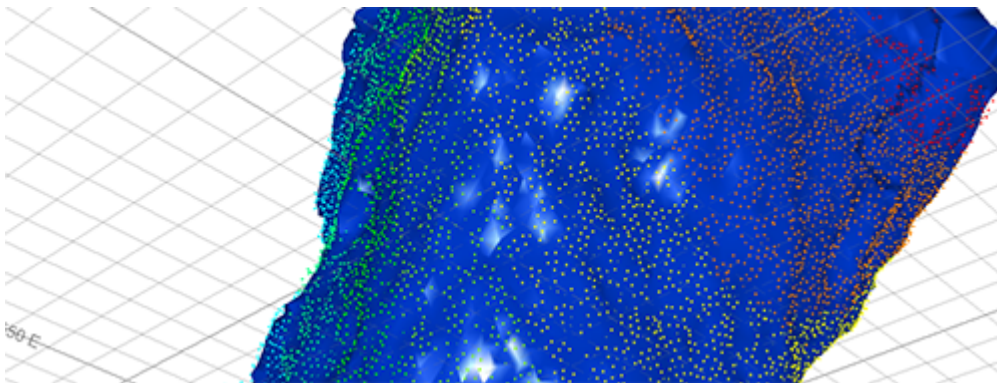


Overlay-Specific Clipping

Apply clipping independently for each overlay.

You can also choose to apply clipping or not to all overlays of a particular data type, or even an entire 3D window.

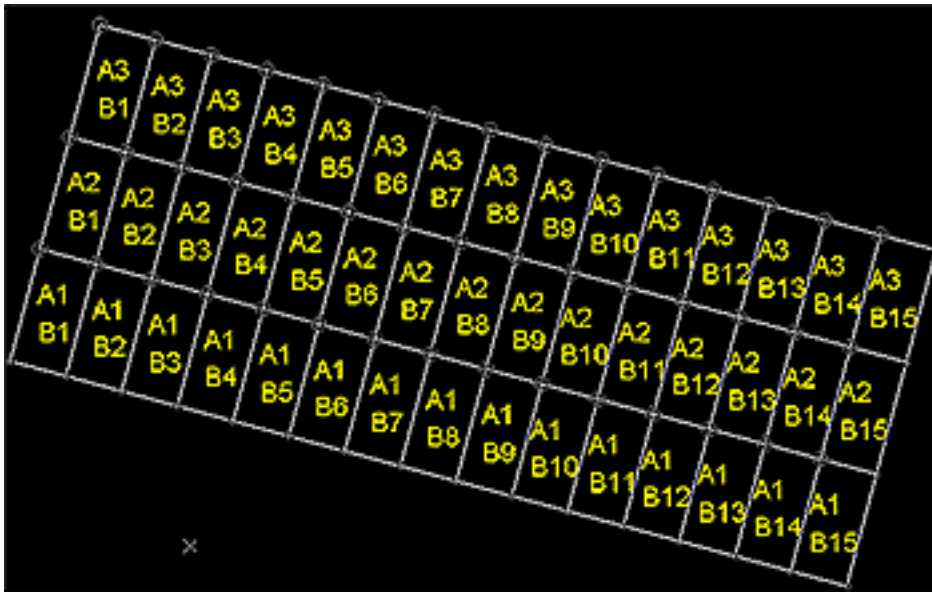
Point Cloud Reconstruction 2.0



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 **Surfaces** ribbon (**Create >> From Points**).

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.

Smooth Contour Grid Colouring Options

Generate a 'smooth' contour grid legend to show subtle variations in contour values between contour isobars. Select from a range of custom smooth legend options and your output grid model displays smooth colour transitions between contour landmarks.

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.

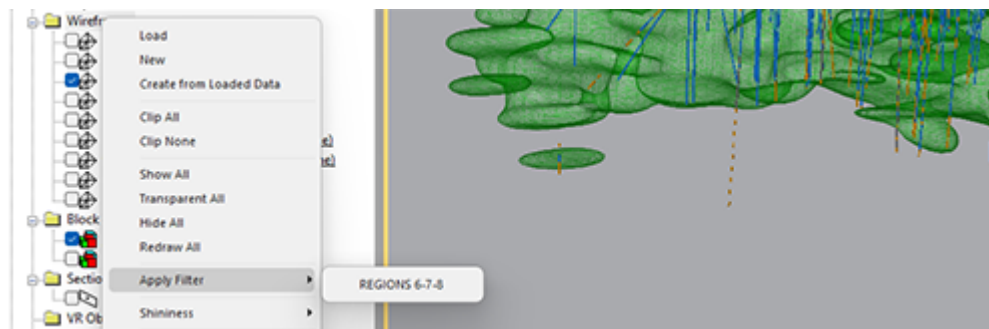
Drillhole Data Selection Toggle

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.

Multiple Attribute Range Legends

The Multiple Attribute Legend wizard has been extended to let you define numeric ranges as well as distinct values, allowing for even more flexibility when generating visualization or evaluation legends.

Save & Reapply Quick Filters



Store your quick filters away for later use. Simply define and store your filter, then reapply it, either using the Quick Filter control bar or a handy new right-click menu item in the Sheets control bar.

You can also apply quick filters at the view and data-type level.

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.

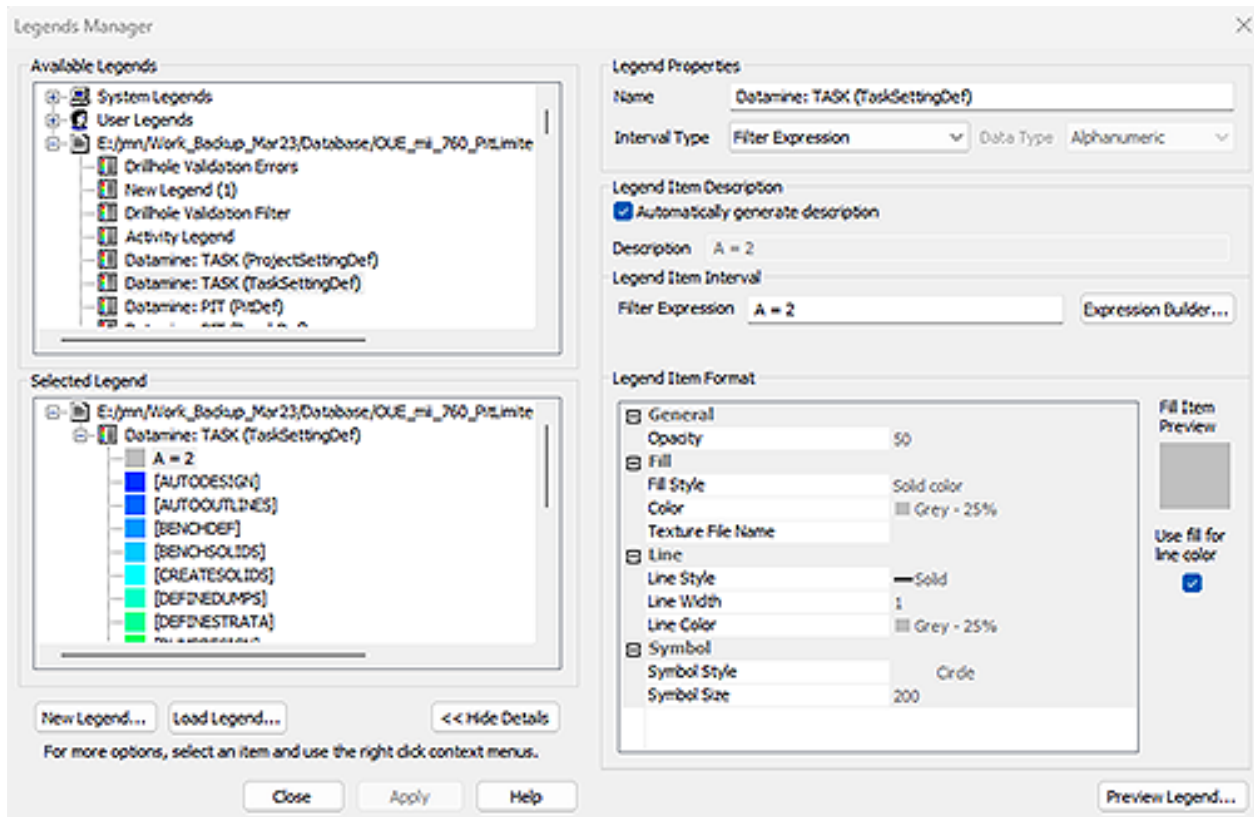
Improved Data Attribute Editor

Edit attribute values of multiple objects of the same type simultaneously and can see averaged numeric values instantly. Any attributes supported by custom legends can also display any combination of associated colour, line style and symbol to make it easier to choose the best value to apply. You can also quickly copy attributes and values between loaded data objects using a few clicks.

BOOLEAN Process

BOOLEAN accepts wireframe data file pairs as inputs and outputs either wireframe or string data depending on the **@METHOD** chosen. This lets you generate Boolean outputs quickly and easily without having to load input data into memory first.

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.

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.

New and improved commands

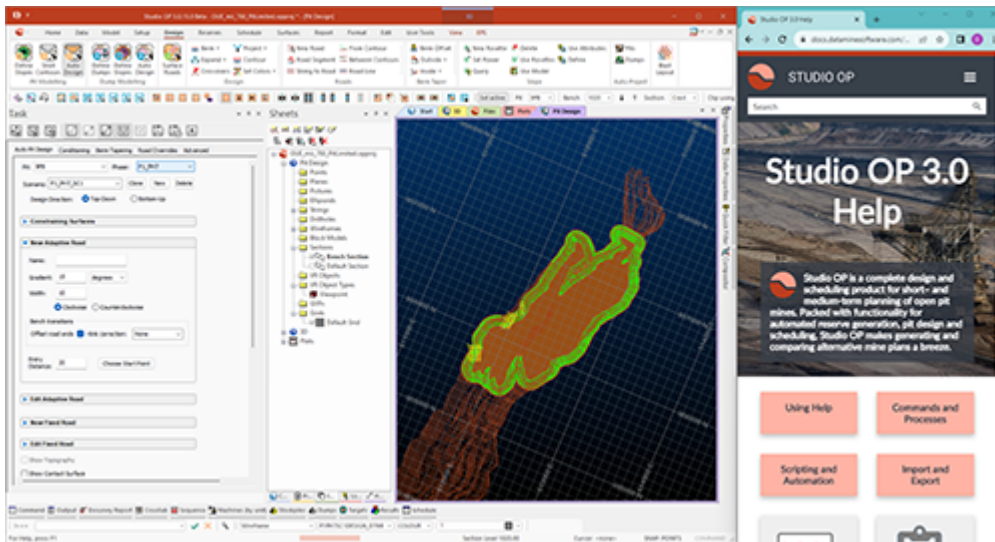
- A new command - **add-zintersect-to-string** - lets you inject string points at a specified elevation.
- A new command - **clip-strings-to-perimeters** - lets you clip any string data with one or more selected perimeters.
- **extend-string-to-string** can now be used to extend any string segment.
- **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.
- **hide-non-selected-points**: Disable the display of all non-selected point data.
- Several string **linking** commands now honour the 'Maximum Segment Length' value (if greater than 0) to limit the segment length of wireframes triangles.
- **Macro path lengths** can now be up to 256 characters (the previous limit was 72 characters).
- **move-string-to-view** projects string data without retaining the original data.
- You can now **restore** previously used **retrieval criteria**.
- **switch-wireframe-edge**: interactively swap the arrangement of internal edges in a two-triangle pair.
- The maximum number of unique values for the ZONE field in **TRIVAL** has increased from 40 to 2000. The amount of text being written to the command text output window has been significantly reduced and a better progress indicator added to the status bar.
- **write-selected-points**: Save selected points to an external file.

Ribbons Overhaul

A streamlined experience for open pit planners and activity schedulers. Based on feedback, we have reorganized and refreshed the ribbon system, and it's now more intuitive and easier to navigate.



New Look & Feel Options



Studio OP has had a complete overhaul of its branding and user interface. This includes a new Start page and updated and optimized ribbons, plus new look and feel options to help personalize your project sessions.

HTML5-compliant, Online Documentation

Access help via docs.dataminesoftware.com. This new online resource will, if an Internet connection is available (and you choose 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.

Not only that, but the 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, so it's worth taking a look!

Improved Data Source Drivers

- We have updated the Minesight Data Source Driver to the latest available.
- ODBC and ODBCv2 drivers have been combined, providing all online database connectivity options in one place.
- Export Vulcan .bmf block models to file sizes up to 4GB. Previously, the limit was 2GB.

All Improvements

Commands & Processes

- **Case: OP-3522** Phase shell contours are no longer shown by default when running the Auto Design task for pits.
- **Case: OP-3518** When defining Auto Design slopes for pits, you can now set the default Catch Berm Width to be absent.
- **Case: OP-3516** During Auto Design, picking a road now automatically ends picking mode.
- **Case: OP-3505** Toggle the display of slope region boundary strings in automated design tasks.
- **Case: OP-3453** An issue causing unexpected projection of design strings from a constraint string with colinear points has been resolved.
- **Case: OP-3424** You can now generate a persistent object and overlay for generated auto pit design data, for use in downstream tasks, using the new **Create Overlays** feature.
- **Case: OP-3389** Copy the data in the **Define Regions** table to the clipboard for use elsewhere, such as other OP tables or external reports.
- **Case: OP-3324** Generate intersection strings where pit design surface data intersects with the topography, contact surface or both.
- **Case: OP-3404** The unsupported legacy **Design** window can no longer be accessed by Studio OP.
- **Case: OP-3377** You can control the appearance of your automated design data using 3D display templates.
- **Case: OP-3347** When defining road overrides, setting a zero taper distance now disables the width field.
- **Case: OP-3164** Studio OP will now indicate if a partial solution was found by the Auto Scheduler. This partial solution can still be used to schedule blocks, if appropriate.
- **Case: OP-3130** Machines, destinations, haul trucks, activities can now have names up to 50 characters.
- **Case: OP-2935** Auto pit and dump design overlays/unmanaged objects are no longer unloaded when the design task ends, allowing the overlays to be used as visual references in other tasks.



- **Case: OP-2885** Control how projected toe and crest string are formed where severe angle changes occur, using a new **Projection Method** option (**Advanced** tab).
- **Cases: OP-2820, OP-2919, OP-2395, OP-2256** Define road override settings at either the pit or bench level. A new Road Overrides screen lets you define, per adaptive ramp/road, specific tapering and endpoint settings.
- **Case: OP-2365** A **Lift Sections** toolbar has been introduced to support dump design operations.
- **Case: OP-2232 Bench Section** Toolbar settings are now preserved when switching between managed tasks.
- **Case: OP-1919** You can now toggle filleting for individual bench or lift 'projections' using a new **Fillet Projected Contour** string conditioning setting.
- **Case: OP-1888** Automatically convert absent values to a different value on validating a model for the planning managed tasks. You can also convert a non-absent value to be absent (e.g. a particular void value code) and convert any negative number to a consistent value.
- **Case: OP-1634** Generate a pit void top surface when generating phase shell contours.
- **Case: OP-1633** Road endpoints can be specified using new controls on the **Road Overrides** panel.
- **Case: Various** Edit Attributes functionality has been extended significantly in this version.
- **Case: CORE-7936** A new command - **switch-drillhole-points-traces** - toggles between pixel line and points drillhole rendering modes.
- **Case: CORE-7917** A new **SELWF** parameter - **FIXNORM** - can be used to detect and rectify common wireframe problems before processing.
- **Case: CORE-7855** The performance of commands that involve moving points has been improved when a lot of visual data is loaded and displayed in a 3D window.
- **Case: CORE-7844 DAELLIPS** can now input rotated models, and **ANISOANG** has been updated to provide expected angular **POINTS** output (plus an optional **REJECTED** output points file). See your process documentation for more details.
- **Case: CORE-7804** The command link-multiple-strings ("lms") now uses the 'Maximum Segment Length' value (if greater than 0) to limit the segment length of wireframes triangles.



- **Case: CORE-7803** The command link-selected-strings-attrib ("lma") now uses the 'Maximum Segment Length' value (if greater than 0) to limit the segment length of wireframes triangles.
- **Case: CORE-7802** The command link-selected-strings-plane ("lmp") now uses the 'Maximum Segment Length' value (if greater than 0) to limit the segment length of wireframes triangles.
- **Case: CORE-7800** The command end-link-boundary (elb) now uses the 'Maximum Segment Length' value (if greater than 0) to limit the segment length of wireframes triangles.
- **Case: CORE-7799** The command end-link (eli) now uses the 'Maximum Segment Length' value (if greater than 0) to limit the segment length of wireframes triangles.
- **Case: CORE-7792** Link-strings now honours the Maximum Segment Length wireframe linking setting.
- **Case: CORE-7780** You can now pan plot views using the cursor as expected.
- **Case: CORE-7778** A new command - **write-selected-points** - lets you save selected points to an external file.
- **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-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-7643** Use the "zx" quick key combination in a Plots projection to activate zoom-by-area mode.
- **Case: CORE-7641** You can now use **Quick Filter** and Format ribbon filtering options whilst using the **Plots** window.
- **Case: CORE-7632** Contouring commands now tag output data with their source command name.
- **Case: CORE-7618** Selecting and deselecting individual drillholes or segments is now significantly faster.
- **Case: CORE-7592** Deselect any active projection using <CTRL> and a left click.
- **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-7435** DXF wireframes can now be saved via script as expected.
- **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-7396 extend-segment-virtual-intersect:** Extend a string segment to virtually intersect a second segment of another selected string.
- **Case: CORE-7395** A new command - **add-zintersect-to-string** - lets you inject string points at a specified elevation.
- **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-7348** The **PTCLD2WF** process has been overhauled to accommodate a wider range of input point clouds.
- **Case: CORE-7310** The **Legends Manager** has been overhauled to make it easier to use
- **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** Choosing to auto-align a section after creation no longer automatically zooms to fit all data in the 3D view.
- **Case: CORE-7163 MODSPLIT** has a **@TOLERANCE** parameter.
- **Case: CORE-7152** A new command - **clip-strings-to-perimeters** - lets you clip any string data with one or more selected perimeters.
- **Case: CORE-7141 SELWF** has a **@SETABSNT** parameter.
- **Case: CORE-7112 Offset-string** accommodates a wider range of input string shapes.

- **Case: CORE-7102** You can choose a 'smooth' legend output when generating contour grids.
- **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, an warning appears.
- **Case: CORE-7027** The **Extract Separate** command will now provide identical results when run interactively and via a script.
- **Case: CORE-7026** Choose to hide the 'Browse for file' prompt when loading a project with broken file references.
- **Case: CORE-7012** **HOLES3D** offers a **DESURVMD** option if run interactively. It is used to locate sample centers or end points on the desurveyed arcs.
- **Case: CORE-6991** The **BOOLEAN** process provides more verbose output messages.
- **Case: CORE-6934** You can now **restore** previously used **retrieval criteria**.
- **Case: CORE-6885** Section plane pierce points are no longer 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-6864** **SELWF** can process more up to 1000 unique **ZONE** values.
- **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-6787** An error in **SWATHPLT** when **ALLZONES** was set to 1 has been resolved.
- **Case: CORE-6746** The **ALLPTS** parameter has been added to **SELWF** and the behaviour for **CHECKROT** has been corrected.
- **Case: CORE-6711** A new process for point reconstruction – **PTCLD2WF** – is available in this version.
- **Case: CORE-6705** When clipping perimeters to other perimeters, interacting with the Quick Filter bar now persists the previous selection.
- **Case: CORE-6767** Custom cursor length intervals can be <1.
- **Case: CORE-6683** When editing an object with lots of attributes, the selected item no longer swaps to the top of the attributes list when you make a new selection.
- **Case: CORE-6601** Specify absent data values in attribute editing commands by typing a hyphen.



- **Case: CORE-6570 snap-to-mid-string-switch** now affects snapping to both the mid points of strings and drillhole segments.
- **Case: CORE-6565** Restore previous settings of the **Grid DTMs** screen.
- **Case: CORE-6544** The **Create Ramp String** command calculates the segment length based on slope distance rather than the horizontal distance.
- **Case: CORE-6534** Wireframe Manipulation tools default to making a new object.
- **Case: CORE-6490 SELPER** has a @CLOSE parameter, automatically closing open input strings for processing, or ignoring open strings if disabled.
- **Case: CORE-6472** Output data from contouring has an improved naming convention.
- **Case: CORE-6467** COZONE has a new @IJKSORT parameter. Models will be sorted on IJK by default.
- **Case: CORE-6449** The **BOOLEAN** process transfers attributes from input to output wireframes and strings.
- **Case: CORE-6426 Generate Distance Contours** places contours and grids more proximally to original data when created using a non-orthogonal orientation.
- **Case: CORE-6388** Use **create-grid-perimeter** to generate a 2D grid anywhere in 3D space, with optional grid reference attribution.
- **Case: CORE-6386** For unique numeric and alpha legends, you can assign colours from a pallet.
- **Case: CORE-6380** Apply previously saved **quick filters** using the Sheets control bar menu
- **Case: CORE-6379** Use the **Quick Filter** control bar to configure, store and reapply previously stored filters.
- **Case: CORE-6377** Use your keyboard's **Page Up** and **Page Down** keys to move sections backward and forward when a 3D window is active.
- **Case: CORE-6374** Copy attributes quickly between different data.
- **Case: CORE-6365** Define an output attribute name for an output file generated by LISTDR. *FIELDNAM is now supported.
- **Case: CORE-6347** Apply multiple translations automatically using the **translate-string** command.
- **Case: CORE-6279** Various drillhole management commands have been updated to respond to partial drillhole/sample selection.
- **Case: CORE-6268 Convert-wf-hull** includes an "Outer boundary only" option.



- **Case: CORE-6246** A **Large Data Mode** switch has been added to 3D Options to circumvent data picking and data disappearance issues at high magnification settings.
- **Case: CORE-6118** **TONGRAD** outputs an Excel spreadsheet with a unique filename.
- **Case: CORE-6148** **DECLUST** now supports retrieval criteria.
- **Case: CORE-6099** A new superprocess – **COPYMOD** – lets you easily relocate and rotate an existing block model.
- **Case: CORE-6037** The **Create New Legend** tool is introduced with this update.
- **Case: CORE-5954** The **Multiple Attribute Legend** wizard has been extended to let you define numeric ranges as well as distinct values, allowing for even more flexibility when generating visualization or evaluation legends.
- **Case: CORE-5941** Render sample orientation information using new drillhole structural symbols.
- **Case: CORE-5927** SELPER can code points using strings and you can include all points in the output with a new ALLPTS parameter.
- **Case: CORE-5687** **Query-multiple-strings** will output the sum area of closed strings in the selection.
- **Case: CORE-5284** **filter-point-off** and **show-non-selected-points** commands have been created.
- **Case: CORE-5223** Enabling the **Lock View** mode in a 3D window no longer adjusts the zoom setting of that view.
- **Case: CORE-5198** You can automatically align the view with a newly-defined 2 point section.
- **Case: CORE-5079** The **MINLAY** process is now obsolete.
- **Case: CORE-5014** **BOOLEAN** accepts wireframe data file pairs as inputs and outputs either wireframe or string data depending on the @METHOD chosen. This lets you generate Boolean outputs quickly and easily without having to load input data into memory first.
- **Case: CORE-4869** You can display a new 'Distance' label type on string data.
- **Case: CORE-4438** **fillet-single-string-point** can now be performed on strings not in the XY plane.
- **Case: CORE-3788** Edit ellipsoid data types using the **edit-attributes** command.



- **Case: CORE-3974** Define an upper limit for **triangle edge length** during string linking via the Project Settings screen. This can also be set using the reinstated dtm-new-point-separation command.
- **Case: CORE-3957** A new command - **switch-wireframe-edge**, lets you quickly adjust the internal organization of wireframe triangles in a quadrilateral.
- **Case: CORE-3349** Generate contours commands are scriptable.
- **Case: CORE-2367 SELWF**, and superprocesses that use it, are significantly faster.
- **Case: CORE-2276** Unsaved changes are recognized by an overlay listed in italics in the Sheets or Project Data control bar(s).
- **Case: CORE-1938** Apply a template to a 3D overlay by right-clicking it in a 3D view.
- **Case: CORE-1928** The **Project Save** popup is resizable.
- **Case: CORE-1654** Lock any 3D view, or 3D view segment by right-clicking and selecting "Lock View".
- **Case: CORE-1521 MODTRI** can process a wider variety of model configurations than in previous versions.
- **Case: CORE-219** Apply or disable clipping for individual object overlays, data types and/or 3D views using new Sheets control bar menu options.
- **Case: STUDIO-1095 COMPDH** can composite both down and up holes, using a new @REVERSE parameter.
- **Case: STUDIO-924 Calculate-structural-orientations** automatically calculates dip and dip directions from core logged alpha and beta angles.

User Experience

- **Case: OP-3533** The **Colours grid** has been removed from the Pit and Dump Design **Advanced** tabs as this functionality is superseded by the new Templates function.
- **Case: OP-3515** Expandable command groups in Auto Design tasks are now collapsed to begin with.
- **Case: OP-3489** Setup, Design and Reserves ribbon icons have been updated.
- **Case: OP-3470** Your Start page will update to reflect the colours of the current Look and Feel mode.



- **Cases: OP-3469, OP-3432** The **Automated Pit Design task** has been reconfigured to simplify the construction of adaptive and fixed roads, plus other quality of life improvements.
- **Case: OP-3464** The **Berm Tapering** and **Road Overrides** screens are now merged, making tapering constraints quicker and easier to configure.
- **Case: OP-3457** The Pit and Bench tables of the Auto Design conditioning controls screen have been merged.
- **Case: OP-3433** The **Automated Dump Design task** has been reconfigured to simplify the construction of adaptive and fixed roads, plus other quality of life improvements.
- **Case: OP-3423** Your application's application frame displays in a new accent colour.
- **Case: OP-3054** Your application's product icon and logo have been rebranded.
- **Case: OP-3052** Studio OP icons (all ribbons) have been recreated to match a standard look and feel.
- **Case: OP-3087** Copy and paste tabular data into the **Define Regions** table (Auto Design)
- **Case: OP-3053** Your application's splash screen has been redesigned.
- **Case: OP-3052** Studio OP icons (all ribbons) have been recreated to match a standard look and feel.
- **Case: OP-3051** Your application's Start page has been redesigned.
- **Case: CORE-8060 write-selected-points** has been added to the 3D window context menu (Save >> Selected Points).
- **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-7405** The deprecated command "Undo Last DTM" is no longer available via the ribbon system.
- **Case: CORE-7267** The **Command** toolbar icons have been updated.
- **Case: CORE-7183** The 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 on the **grid-dtms** screen to display the name in full.
- **Case: CORE-6689** The 3D object labels panel has been reconfigured for clarity.
- **Case: CORE-6555** Enable or disable labels using an interactive list.
- **Case: CORE-6495** The Ignore Clipping button has been removed from the 3D View ribbon as it is deprecated following the introduction of overlay-specific clipping.
- **Case: CORE-5442** The 3D Templates screen has been reorganized and iconized to make template creation and application easier to understand.
- **Case: CORE-3537** Validation of values when using the edit-model-cell-values command has been extended.
- **Case: CORE-3529** Tabular data in all attribute editing commands can now be sorted by column.
- **Case: CORE-2662** Your Studio product version number will now appear on the title bar of your application.
- **Case: CORE-2411** A "slab error" message, displayed where a non-existent import file is selected, has been improved when importing Minesight block models.
- **Case: CORE-2277** Access **create-new-wireframe-object** via the **Sheets** control bar.

Utilities & Supporting Services

- **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-7451** Rename 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-7306** Desurveying is no longer automatically performed when importing through the Data Providers as desurveying is now handled by the Drillhole Importer.
- **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-7118** Export Vulcan .bmf block models to file sizes up to 4GB. Previously, the limit was 2GB.
- **Case: CORE-6868** Force data imported via the ODBC driver to be imported as numeric data.
- **Case: CORE-6816** Maximum fields check and warning now implemented for Vulcan, Surpac, Text, MineSight and Micromine drivers.
- **Case: CORE-6648** When importing data via the Text driver, only a single legend is now created (based on the first attribute field) not a legend for every field as was happening previously.
- **Case: CORE-6599** CSV tables without up to 1000 data columns can now be imported.
- **Case: CORE-6566** The **Table Editor** now has a template for Ellipsoid data tables.
- **Cases: CORE-6544, CORE-4983** When importing DXF and DWG files containing multiple data types, separate objects are created for each type detected in the incoming file.
- **Case: CORE-6510** Studio products will no longer operate if the local version of License Services is downgraded to an earlier version than installed with the product. See "License Services – Important Information, above".
- **Case: CORE-6171** Microcosm's Dinkey Pro dongles can be used to secure license keys.
- **Case: CORE-6156** The ODBC and ODBCv2 drivers have been combined, providing all online database connectivity options in one place.
- **Case: CORE-5668** We have updated the Minesight Data Source Driver to the latest available.
- **Case: CORE-5020** When importing Micromine block models, field names are no longer limited to 9 characters. They can now be up to 24 characters on a long field system.
- **Case: CORE-5019** The **Data Converter** now converts MineSight block models to Datamine format.
- **Case: CORE-2586** A message indicating the possible presence of duplicate points after CAD import has been implemented.
- **Case: CORE-2205** Support has been provided for up to 1024 fields when exporting a Vulcan BDF model.



Auto Scheduler

- **Case: SUMSCH-1097** Define asynchronous attributes; blocks with the same attribute value will be fully mined before the next task is performed.
- **Case: SUMSCH-1095** A new **Schedule** option is available – **Merge with Reclaim**. This will merge new data with existing but lock the material mined from the pit, thus only allowing reclaim to occur from within the pre-scheduled material.
- **Case: SUMSCH-1089** Plant utilisation is now 100% in scenarios where the plant can only be filled via reclaim.
- **Case: SUMSCH-1065** The **Merge with Reclaim** option from the AutoScheduler window uses the preschedule and allows additional reclaim from the stockpile subject to existing constraints and targets.
- **Case: SUMSCH-1006** Schedule calculation logic has been enhanced to control exclusivity of mined regions within a period.

Scripting & Automation

- **Case: CORE-6402** Feature Edge parameters can now be set when scripting the **Wireframe Verify** command (**VerifyEx(FeatureEdgeAngle=x...)**, where x is a numeric value between 0 and 360).

Documentation & eLearning

- **Case: OP-3346** Context-sensitive help is now available for the **Road Overrides** panel.
- **Case: CORE-7414** The **PICREC** help file includes information on disambiguating reserved keywords.
- **Case: CORE-6378** A new help file has been added to explain retrieval criteria in processes.
- **Case: CORE-6311** A railroad diagram has been added to the Help system to better explain expected **EXTRA** syntax
- **Case: CORE-6191** The **SETVAL** help page has been updated to explain the use of the ! character to terminate multi-field entry.
- **Case: CORE-6140** The **SELPER** help file now includes information relating to CHECKROT and IJKSORT parameters.



- **Case: CORE-5230** The **PICREC** helpfile now contains information about disambiguating values.
- **Case: CORE-5024** The **SELWF** help file has been expanded.
- **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**.



Defect Fixes

- **Case: OP-3559** An issue causing the Delete button on the Define Phases screen to become unexpectedly unavailable has been resolved.
- **Case: OP-3540** Scenarios with haulage now provide a consistent solution between different runs.
- **Case: OP-3458** An issue causing deformed strata solids has been resolved.
- **Case: OP-3416** An error in the Break String ribbon tooltip has been corrected.
- **Case: OP-3405** A data-specific problem causing a fatal error when processing a scheduling scenario has been resolved.
- **Case: OP-3403** A typographic error in the **Dependencies** task window has been corrected.
- **Case: OP-3390** An issue causing system instability when defining manual mining block attributes has been resolved.
- **Case: OP-3386** Changing the slope region name in the **Define Slope Regions** task no longer removes prior rosette data.
- **Case: OP-3364 Activity Units** are correctly imported when using an Auto Scheduler scenario.
- **Case: OP-3353 Dump Rim** data is now automatically saved when design strings are saved in the Dump Modelling tool.
- **Case: OP-3331** An issue causing the non-attribution of mining blocks, when defining interactively, has been resolved.
- **Case: OP-3306** An issue causing system shutdown when scheduling multiple blocks manually has been resolved.
- **Case: OP-3302** Auto design commands now generate expected results where face angles are 90 degrees.
- **Case: OP-3297** A persistent warning displayed if an auto design entry distance was left absent has been resolved.
- **Case: OP-3280** When creating surface roads, the topography is now consistently updated with the cut batters.
- **Case: OP-3279** Grid cutters created in the grids mining block task are now saved and reinstated as expected
- **Case: OP-3265** When cutting bench solids using a grid, outlines no longer incorrectly extend beyond the pit.
- **Case: OP-3260** When importing haulage details, you are now warned if an incompatible data character is detected.

- **Case: OP-3258** The **Bench Lag** tool will now read attribute values from attributes other than PHASE.
- **Case: OP-3237** Typographic errors in the **Haulage Performance Settings** dialog help page have been corrected.
- **Case: OP-3213** A data-specific problem, that could cause some individual blocks to be omitted when importing mining blocks, has been resolved.
- **Case: OP-3129** An issue preventing two pit regions from being joined, where one contained a fixed road/ramp, has been resolved.
- **Case: OP-3128** Entering a pit name of 'Pit' no longer causes issues within Bench Lag and Active Benches.
- **Case: OP-3103** Mouse wheel usage now triggers the expected behaviour in tabular data grids.
- **Case: OP-2210** If the planning model is no longer accessible, a warning is now issued when attempting to specify slope regions by model contents.
- **Case: OP-1695** An issue causing a top-down auto design calculation to complete when using minimum area options, has been resolved.
- **Case: SUMSCH-1104** An issue that could cause the same scenario to generate differing results on subsequent runs has been resolved.
- **Case: SUMSCH-1103** Fixed error in sliding window heuristic which reduced the number of periods to solve for in some cases.
- **Case: SUMSCH-1100** An issue causing a schedule to be generated, where a block is mined without its immediate predecessor being already mined, has been resolved.
- **Case: SUMSCH-1094** Objective function is no longer inaccurate when discounting is present.
- **Case: SUMSCH-883** Block dependencies are no longer assigned for blocks with zero tonnage.
- **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-7839 SWATHPLT** now processes data where a ZONEFLD contains more than 40 records.
- **Case: CORE-7788** An issue causing potential system instability when sorting by Date Modified in the Project Browser has been resolved.
- **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-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-7622** Global selection buttons in the Data Provider table selection screen are now operational.
- **Case: CORE-7436** @BOUND TYP 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 Files can now be loaded by script.
- **Case: CORE-7291** **SELWF** now selects inside a wireframe correctly when the plane is not set.
- **Case: CORE-7255** If querying multiple strings the correct area is now calculated for non-convex shapes.
- **Case: CORE-7252** Retrieval criteria in **SELWF** is now 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 incorrectly appears in **Sheets >> Plots** menus.
- **Case: CORE-7213** An issue preventing the **import of a .mdl block model** file has been resolved.
- **Case: CORE-7202** 'Point data' controls are correctly enabled/disabled on the **generate-contours-from-holes-intercepts** screen.
- **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 now initializes correctly.
- **Case: CORE-7171** Breaking strings with other strings (BKI or BKS) now correctly breaks the target string.



- **Case: CORE-7145** After breaking a string with another string (BKI or BKS), attributes are now edited correctly on resulting string segments.
- **Case: CORE-7139** In **COPYMOD**, default values of the new origin and angles are now being 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-7123** 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-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 now consistent between multiple runs with the same settings and data.
- **Case: CORE-7099 COMPSE** will now ignore trivial gaps between concurrent samples.
- **Case: CORE-7094 edit-model-cell-values** now responds correctly to data unload operations.
- **Case: CORE-7091** Internal block model blocks are now rendered correctly in the **3D** view when clipping.
- **Case: CORE-7087** An issue causing system failure when renaming an object data column in the **Data Object Manager**, has been resolved.
- **Case: CORE-7080** An issue causing system instability, when using **Drillhole Planner** with the **Data Properties** bar displayed, has been resolved.
- **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 no longer truncated on the **System Options** screen.
- **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-7038** Picture and plane objects no longer obscure transparent foreground filled strings and sections.
- **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** no longer resets the first Survey record to AT=0 if there is no AT=0 record.
- **Case: CORE-6935** DTM creation no longer fails to create a surface where coincident points exist.
- **Case: CORE-6987** Object data overlays are now 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 output values. This has been resolved.
- **Case: CORE-6982** An error in the **BOOLEAN** process documentation has been corrected.
- **Case: CORE-6979** The **BOOLEAN** process generates identical results to the wireframe-intersection command.
- **Case: CORE-6978 DILUTMOD's** subcell checking routines now 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-6882** Plot title boxes no longer unexpectedly rearrange when cell contents fail to load.
- **Case: CORE-6877** The system no longer halts unexpectedly if the file source of a histogram chart cannot be found.



- **Case: CORE-6876** An issue causing system failure after cancelling a CAD driver import dialog has been resolved.
- **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-6839** An issue causing incomplete **export to Surpac .mdl** format has been resolved.
- **Case: CORE-6828** An issue causing tutorial help files to display script errors 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-6772** A **Machine ID** is no longer affected by the presence of temporary, external storage devices.
- **Case: CORE-6749** A potential security vulnerability in **License Services** has been blocked.
- **Case: CORE-6748** The system no longer halts unexpectedly when running create-new-legend with a range type set as 'Equal Population'.
- **Case: CORE-6736** The **Quick Filters** screen can no longer be edited unexpectedly by overtyping.
- **Case: CORE-6730** The **Edit Attributes** dialog now correctly references the ellipsoid data type.
- **Case: CORE-6728** The system now handles running **wireframe-solid-hull** with an empty wireframe object.

- **Case: CORE-6722** Overlay symbol scaling conversion is now working correctly in conjunction with rotation.
- **Case: CORE-6720** An issue causing mouse wheel zooming to fail, after box selection and panning in 3D, has been resolved.
- **Case: CORE-6709** An issue causing the export of previously imported/exported .dwg/.dxf files to fail has been resolved.
- **Case: CORE-6706 SELWF** no longer displays an unwarranted missing block model fields error in some circumstances.
- **Case: CORE-6688** An issue causing system shutdown in **group-lithology** when deleting the Group name has been resolved.
- **Case: CORE-6687 Copy-string-attributes** is working as expected
- **Case: CORE-6658** When using **CDTRAN**, if the fields *NEWX*, *NEWY* and *NEWZ* already exist, they are recreated and not deleted from the output file.
- **Case: CORE-6642** There is no longer an unexpected divergence in the statistics generated between the Histogram tool and Statistics Processes when a Weight field is used.
- **Case: CORE-6617 Wf-intersections** adds expected data attributes to generated strings.
- **Case: CORE-6610** An issue that could cause the system to halt, after undoing an **insert-curve** command, has been resolved.
- **Case: CORE-6607** An issue causing the system to fail after running **make-dtm-from-object** has been resolved.
- **Case: CORE-6606** System instability when running **link-boundary** (lbo) with **Minimum Surface Area** linking enabled has been resolved.
- **Case: CORE-6605** An issue causing the system to halt, after filtering drillholes with labels position at intervals, has been resolved.
- **Case: CORE-6603** A data-specific issue causing the system to halt when generating a new legend 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-6592** An issue affecting the import of Micromine TRIDB files has been resolved.
- **Case: CORE-6580** An issue causing the system to halt when using circle-with-defined-radius has been resolved.
- **Case: CORE-6574** When creating a scatter plot, when bin averaging is turned on and average points are displayed, cumulative averaging is no longer incorrectly performed.

- **Case: CORE-6549** An issue preventing the import of ECW files with embedded colour band data 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-6527** The **Generate-contours-from-holes-intercepts** screen has been rearranged to accommodate our minimum supported screen height.
- **Case: CORE-6519** A data-specific issue causing incomplete importation of DGN shape data has been resolved.
- **Case: CORE-6507** An issue causing the corruption of field names during Micromine model import has been resolved.
- **Case: CORE-6504** Using the **make-dtm-from-objects** command with a strings file now completes as expected.
- **Case: CORE-6501** Calculated virtual field values are saved correctly to physical files.
- **Case: CORE-6492** Strings generated by the **wireframe-section** command inherit attributes from the input wireframe as expected.
- **Case: CORE-6482** License Services Machine ID calculation is no longer affected by the boot order of devices.
- **Case: CORE-6478** An issue preventing string or surface generation after restoring the **Contours from Drillholes** dialog has been resolved.
- **Case: CORE-6477** Values are now restored correctly in contouring commands.
- **Case: CORE-6474** The system no longer halts unexpectedly on closing a project after attempting to load an unsupported image file format.
- **Case: CORE-6462** Selecting wireframes in the **3D** view correctly deselects other data types.
- **Case: CORE-6452** Creating a new legend with **Use default legend** no longer includes values from previously made legend.
- **Case: CORE-6448** An issue preventing the successful import of a MineSight model 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-6430** An issue that could cause the system to halt, when using unload-all in combination with the move-string-section command, has been resolved.

- **Case: CORE-6428** When a non-horizontal orientation is used with **generate-contours-from-points**, the contour, grid and surface values are now as expected.
- **Case: CORE-6427** An issue that could cause the system to halt, when using unload-all in combination with the insert-by-segment-length command, has been resolved.
- **Case: CORE-6423** An issue causing a boolean operation to fail on a subset of stope wireframes has been resolved.
- **Case: CORE-6418** An issue causing scale locking in the **Plots** window to fail has been resolved.
- **Case: CORE-6416** An instance of system instability when digitizing, deleting and edit the attributes of string data has been resolved.
- **Case: CORE-6411** An issue causing the system to halt, when running **dtm-create** with a 3 point string or points file, has been resolved.
- **Case: CORE-6406** Splash screens appear correctly with 125% display scaling.
- **Case: CORE-6398** Drillhole data can now be selected for attribute editing even if data was selected before running edit-dh-attributes.
- **Case: CORE-6392** A potential unexpected program termination has been fixed on the **edit-attributes** screen which was previously caused if trying to apply changes repeatedly.
- **Case: CORE-6387** Rotated models are rendered with the expected origin and orientation.
- **Case: CORE-6362** The context menu option to select a 3D section is working as expected.
- **Case: CORE-6343** A data-specific issue preventing the import of CAD points has been resolved.
- **Case: CORE-6336** An unexpected error message in **MODTRI** after processing a large model has been resolved.
- **Case: CORE-6361** Section reference point changes (**Section Row Properties**) are now applied immediately on exiting the field.
- **Case: CORE-6342** An issue causing a persistent error message in the **Data Column Properties** dialog (**Loaded Data** control bar) has been resolved.
- **Case: CORE-6327** An unexpected model data definition change during text driver import no longer occurs.
- **Case: CORE-6323** The checkboxes in the **Quick Filter** control bar respond correctly to mouse events.



- **Case: CORE-6297** An issue causing an .shp import to generate double the expected records has been resolved.
- **Case: CORE-6289** You can reliably copy and paste formatting between title box plot items.
- **Case: CORE-6287** During dynamic string evaluation, you can now write attributes back to strings if using non-horizontal sections.
- **Case: CORE-6277** An issue causing objects displayed as intersections to be rendered on non-primary Plots projections has been resolved.
- **Case: CORE-6276** An unexpected "LESS THAN TWO SAMPLES, PROCESS TERMINATED" error when running the **ST1GX** process has been resolved.
- **Case: CORE-6272** An issue causing the system to halt when editing the format of a Table plot item has been resolved.
- **Case: CORE-6251** A persistent warning message displayed when setting the Back clipping < Front clipping has been removed.
- **Case: CORE-6235** A data-specific issue causing the system to halt when linking two open strings (with duplicate points) has been resolved.
- **Case: CORE-6229 COUNT** no longer creates a blank Datamine file if running within a macro and the file path is 40 characters
- **Case: CORE-6189 Generate-contours-from-holes-intercepts** contour attribute is now updated correctly when an object is selected
- **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** now 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-6120** Histogram, variogram, grade tonnage curve or graphic results files created in the **Plots** window no longer require remapping of the files used when opening the project file from a new location.
- **Case: CORE-6104** Default line and point symbols are now correctly reinstated when a project is reloaded.
- **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-6097 HOLES3D** with *INCLMISS* specified now provides consistent output regardless of input sample order.
- **Case: CORE-6095** Running the **unlink-triangle** command will now automatically deselect any previously selected triangles.
- **Case: CORE-6081** The reinstated **unlink-wireframe** command now has a help file.
- **Case: CORE-6080** The **Texture from Object** setting is now correctly applied from a visual display template.
- **Case: CORE-6072** The URL to project startup scripts is now 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-6056** Data types are now persisted correctly when importing CSV data.
- **Case: CORE-6043** The grid value for the weighting column is no longer reset if it has been pre-defined (e.g. from Evaluation settings).
- **Cases: CORE-6039, CORE-5674 Linestyle** and **Thickness** attribute values are now exported to DXF and DGN as expected.
- **Case: CORE-6011** An issue, causing system failure when reloading or refreshing a data object imported from an acQuire Database, has been resolved.
- **Case: CORE-6003** Text boxes are now displayed as expected when switching back to **Plots** from the **Print Preview** window.
- **Case: CORE-5996** The COMPDH help file now includes data relating to *ZONE2 and *ZONE3.
- **Case: CORE-5832** A help topic has been created for the **undo-last-edit** command.
- **Case: CORE-5758** The **Borehole Warning Report** no longer fails to produce output when multiple drillhole objects are input.



- **Case: CORE-5742** Erroneous text on the **Wireframe Solid Hull** help page has been corrected.
- **Case: CORE-5705** The **Project Files** bar now correctly lists all expected projects files when an existing project is opened (data-specific)
- **Case: CORE-5667** A data-specific issue when importing STR and DTM (Surpac) format files has been resolved.
- **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-5563** An incorrect hyperlink on the summary help page for **Studio Commands & Processes** has been corrected.
- **Case: CORE-5507** Redundant links to legacy support resources have been removed from Help files.
- **Case: CORE-5502** The Plots window now correctly honours "SCALE" when a section definition file is applied from a script.
- **Case: CORE-5494 HOLMER** no longer produces zero length samples under some circumstances.
- **Case: CORE-5364 SELPER** now produces output coordinates in the expected coordinate system.
- **Case: CORE-5345** An "Error extracting geometry from Micromine wireframe" message has been investigated and resolved.
- **Case: CORE-5238** An issue causing the **Data Converter** to fail when accessing it via script has been resolved.
- **Case: CORE-5200** A data-sensitive issue causing intermittent corruption of alphanumeric field values in **TRIVAL** has been resolved.
- **Case: CORE-5238** An issue causing the Data Converter to fail when accessing it via script has been resolved.
- **Case: CORE-5209** An issue causing alphanumeric field data to be imported incorrectly via the ODBC v2 driver has been resolved.
- **Case: CORE-5200** A data-sensitive issue causing intermittent corruption of alphanumeric field values in **TRIVAL** has been resolved.
- **Case: CORE-4809 PICREC** operates as expected when processing non-integer attribute values.
- **Case: CORE-4632 WFCODE** no longer incorrectly sets alphanumeric zone fields to numeric if @SETABSENT=1.
- **Case: CORE-4506** File names are no longer restricted to 8 characters when recording **APPEND** in a macro.



- **Case: CORE-4359** An issue that could cause the system to freeze by selecting non-target data in the insert-by-segment-length command 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-4238** A typographic error in the **E-W Section** ribbon button tooltip has been corrected.
- **Case: CORE-4198** An issue causing system failure when editing the length value in the Compositor window, has been resolved.
- **Case: CORE-4169 OUTPUT** results with @DPLACE=-1 now match the same precision as values cut and pasted into Excel from Table Editor
- **Case: CORE-4085** In **COMPBE**, where FROM-TOs are greater than @MINGAP, compositing will now continue at the next interval of the same hole, and won't skip to the next BHID as previously.
- **Case: CORE-3798 Generate-contours-from-points** reacts correctly to object deletions.
- **Case: CORE-3694** An intermittent issue causing 3D window zooming to fail after filtering has been resolved.
- **Case: CORE-3535** The tab order of fields on the **Edit Model Cell Values** screen is now correct.
- **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 now permits alphanumeric columns to be exported in Microsoft Access format.
- **Case: CORE-3012** The View ribbon no longer disappears if you hide and reopen the primary 3D window.
- **Case: CORE-2860** Minor edits have been made to the Evaluation Settings dialog for consistency.
- **Case: CORE-2704** In POLREG the coefficients are now written as explicit rather than implicit fields. The output file has one record.
- **Case: CORE-2701** All contouring commands can now be run regardless of data visibility settings.
- **Case: CORE-2692** Spinner button behaviour in **Tools >> 3D >> Initial States** is now as expected.
- **Case: CORE-2691** Incorrect spin button behaviour in the **Plots >> Default Page Setup** screen has been corrected.



- **Case: CORE-2405 COMPDH** now produces accurate results when the **EOH** interval is 0.
- **Case: CORE-2337** An issue causing system failure when opening a project where multiple block models were previously unloaded, has been resolved.
- **Case: CORE-2308** Various corrections have been made to the **Scripting Tutorial**.
- **Case: CORE-2138** Cancelling out of **Load External Data** no longer leaves the CAD driver inoperable
- **Case: CORE-1449** An issue causing **COMPBR** to become unresponsive with certain interval values has been resolved.
- **Case: CORE-617** A data-specific issue preventing **MODTRI** from completing has been resolved.
- **Case: CORE-375** An issue causing **SELPER** to fail where X,Y,Z, where specified as additional fields, has been resolved.
- **Case: CORE-180** A data import issue causing system failure, after decimating an imported Sirovision .TIFF/.SJT file, has been resolved.



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