



The Complete Strategic Open Pit Mine Planning System

STUDIO NPVS

Release Notes

Studio NPVS 2.0.59.0

STUDIO NPVS
STUDIO RMS
STUDIO MAXIPIT



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Legal Disclaimer

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

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Overview



Studio NPVS is unique in the mining industry as the only strategic mine planning system that optimises both mine design and schedule in the search for maximum NPV. Studio NPVS is actually a collection of 3 products; Studio NPVS, Studio Maxipit and Studio RMS.

Studio NPVS 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 NPVS 2.0.59.0.

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

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

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)?

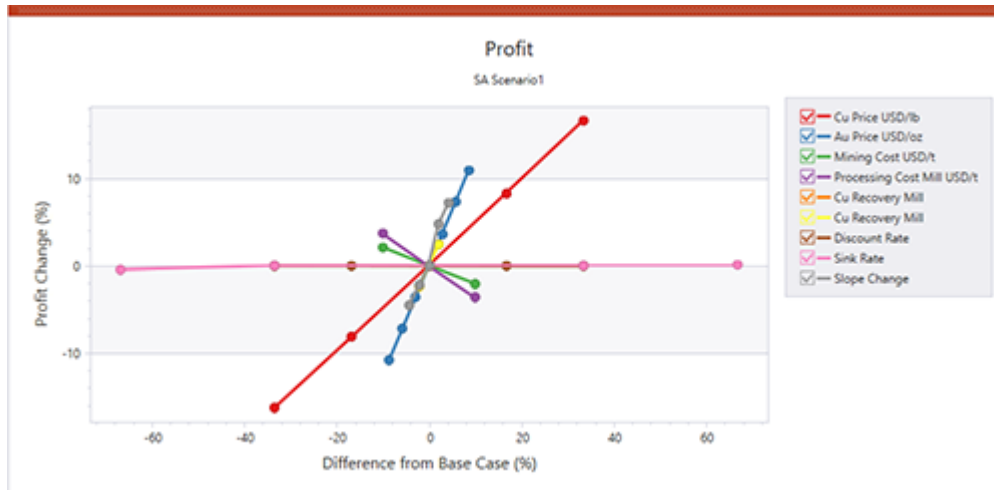
No. Server versions, providing they are already supported, continue to serve licenses as before. There's no need to upgrade license servers as a result of this change. This change enforces a minimum *local* License Services version constraint.

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 NPVS 2.0 Release Notes

Key Improvements

Sensitivity Analysis



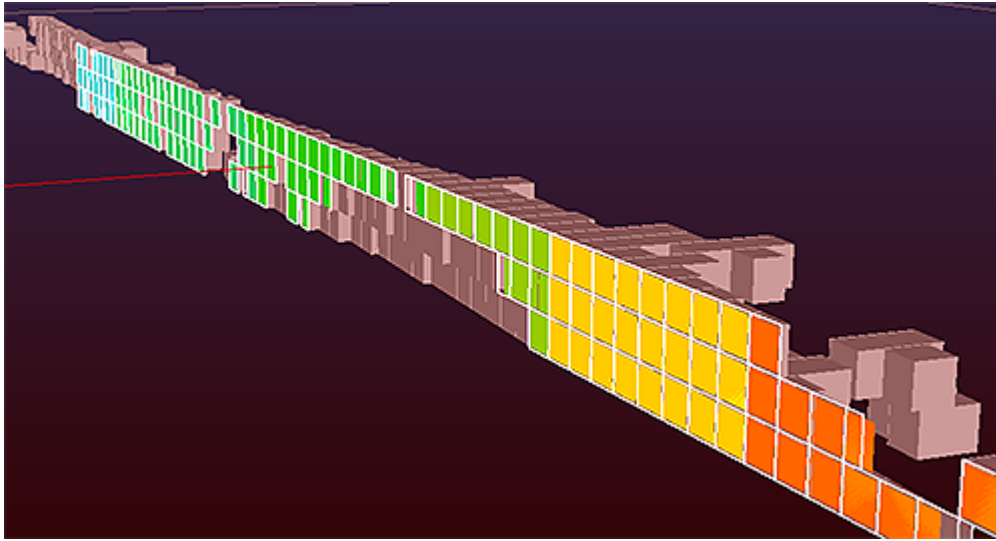
Better understand the risks and opportunities of your project by analysing your strategic plan's sensitivity to optimization parameters, without generating sets of scenarios individually.

Set up batch runs and process them using an appropriate number of cores, processing each run in parallel to compare outcomes. Want to see how a commodity price or slope constraints affect pushback optimization? No problem - simply generate a batch of scenarios at once and see which one makes the most sense for maximum NPV. Display results unequivocally with new reporting options, including spider graph output, and easily compare several charts and tables using a new **Group Chart** console.

Parallel Batch Processing

Set up batch runs and process them using as many cores as you need, processing each run in parallel to compare outcomes. Much, much quicker than running each scenario in order.

MSO2NPV - New Process



MSO2NPV updates model data for strategic planning in Studio NPVS, using MSO output wireframes.

The metal content and mass from the slope wireframe data is the same in the block model for the cells representing the MSO shapes, although an optional comparison table is available for analysis. All cells outside the MSO volumes are not considered ore. This process is intended to apply the selective mining units generated by MSO (or by any other means) into the model to be used for optimizing in **Studio NPVS**.

Global Maximum Slope Error

You can now apply a global maximum slope error via the **Pit Optimization Slopes** panel. This is applied by default to all slope regions, saving time where values exist that are common to multiple regions.

Speedier Reporting

We have optimized the way the new reporting facility works in this version, meaning results are displayed more quickly than in previous versions.

Maxipit - Boolean and Plane Functions

Studio Maxipit now features the full range of wireframe boolean and plane operations available in Studio NPVS and Studio RMS. No additional license is required. These tools are found on the **Surfaces** ribbon.

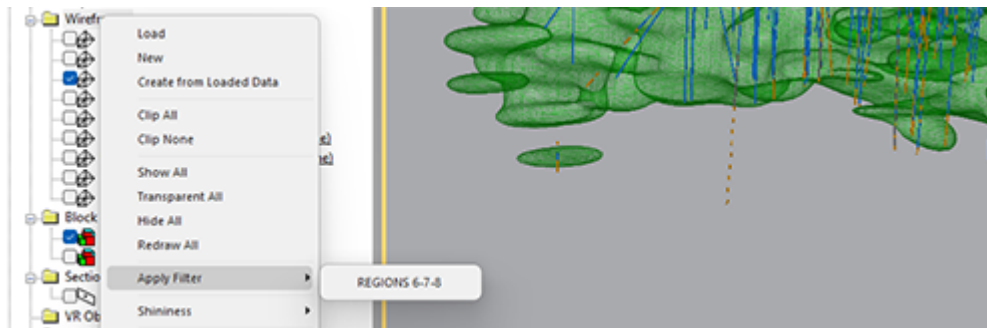
Attributes from Perimeters

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

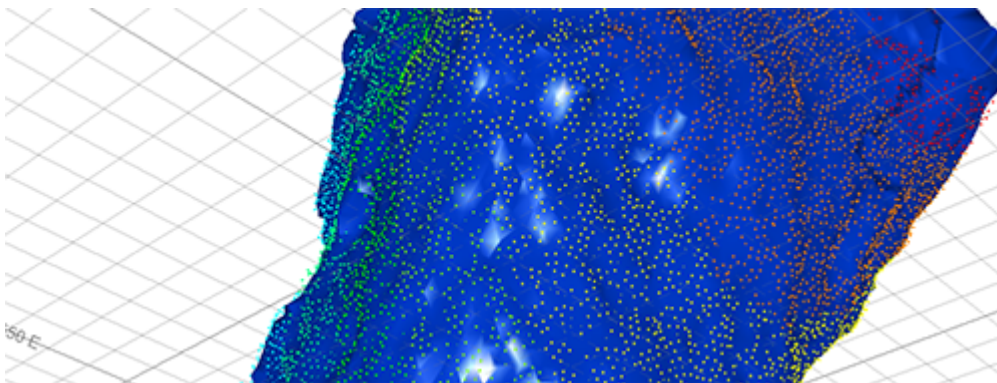
You can now use the quick key combination "tds" to swap between full drillhole and independent sample data selection in a 3D view. A new command - **toggle-drillhole-selection** - is also available.

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

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.

Calculate and Display Structural Orientations

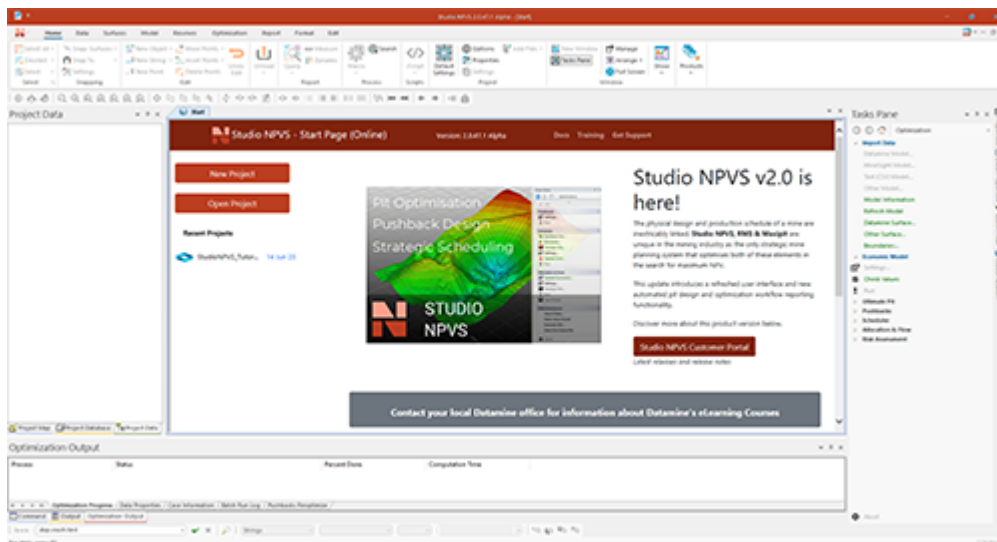
Define and format 2D or 3D drillhole structural symbols using a new 3D properties screen. Choose up to 3 orientation angles and render core sample orientation data using a wide range of visualization options.

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 isolated using a wireframe volume, providing greater accuracy than the previous string barrier method. Wireframe swaths are a new additional output. Data can be analyzed in Excel in the usual way.

New Look & Feel Options



Studio NPVS 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.

All Improvements

Commands & Processes

- **Case: Multiple** Analyse your schedule's sensitivity to input parameters using new **Sensitivity Analysis** and spider graph reporting functions.
- **Case: SNPVS-851** The default number of cores used when computing batch runs is now set to half the number available on the machine.
- **Case: SNPVS-838** An issue causing system failure following the deletion of a custom EM price variable has been resolved.
- **Case: SNPVS-827** Slope filters are now automatically recalculated after completing UP settings.
- **Case: SNPVS-816** You can now apply a global maximum slope error via the Pit Optimization slopes panel. This is applied by default to all slope regions.
- **Case: SNPVS-804** Custom variables are now presented via the Economic Model settings report.
- **Case: SNPVS-741** The default report table now shows the total ore mass for projects with one ore rock type.
- **Case: SNPVS-729** You can now display charts plotted by pushback as non-stacked, grouped bars.
- **Case: SNPVS-723** An issue causing system instability when saving window layouts has been resolved.
- **Case: SNPVS-718** A project-specific issue preventing the display of reports and charts has been resolved.
- **Case: SNPVS-715** Comparison charts will now show data series on a common axis if field values are similar.
- **Case: SNPVS-713** **Studio Maxipit** now features Boolean and Plane wireframing tools.
- **Case: SNPVS-552** The new reporting facility now displays results more quickly.
- **Case: SNPVS-378** Perform parameter **Sensitivity Analysis** with a new collection of tools.
- **Case: CORE-7632** Contouring commands now tag output data with their source command name.
- **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-7348** The **PTCLD2WF** process has been overhauled to accommodate a wider range of input point clouds.
- **Case: CORE-7254 MSO2NPV** is introduced to update model data for strategic planning in Studio NPVS, using MSO output wireframes.
- **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** now supports a **@TOLERANCE** 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-7112 Offset-string** accommodates a wider range of input string shapes.
- **Case: CORE-7102** 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-7026** Choose to hide the 'Browse for file' prompt when loading a project with broken file references.
- **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-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-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-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 the **Lock View** mode in a 3D window no longer adjusts the zoom setting of that view.
- **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 now composite both down and up holes, using a new **@REVERSE** parameter.
- **Case: STUDIO-924** **calculate-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

- **Case: SNPVS-837** The **Tasks Pane** has been reformatted to fit new look and feel options.
- **Case: SNPVS-812** The **Economic Settings** dialog is now resizable and supports new visual themes.
- **Case: SNPVS-768** The **Digitizer Apply** screen reports block bottom elevations to be consistent with other areas of the application.
- **Case: SNPVS-743** The **Tasks Pane** has been updated to suit the new look and feel options in your product.
- **Case: SNPVS-518** The legacy Design window is no longer available in this product.
- **Cases: SNPVS-371, SNPVS-370, SNPVS-369, SNPVS-368, SNPVS-742** Studio NPVS has been rebranded, including documentation, splash screen and application icons.
- **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** 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.

Utilities & Supporting Services

- **Case: CORE-7451** Rename multiple license solutions using a standard naming convention.
- **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-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-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-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 .dm format.

Documentation & eLearning

- **Case: CORE-7414** The **PICREC** help file includes information on disambiguating reserved keywords.
- **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: SNPVS-889** Incorrect wording in the EM Settings help page relating to mining recovery, has been corrected.
- **Case: SNPVS-870** **Quick Legend** and **New Legend** access points are now correctly configured on the Format ribbon.
- **Case: SNPVS-835** An issue causing system instability when running a deleted scenario of a batch has been resolved.
- **Case: SNPVS-821** Waste is now automatically reported in all summaries once an economic model has been generated.
- **Case: SNPVS-819** An issue preventing the display of all expected fields, when creating a new report or chart, has been resolved.
- **Case: SNPVS-816** Customized reports are now correctly preserved when changing between scenarios.
- **Cases: SNPVS-814, SNPVS-735** Report templates now correctly reinstate all expected items.
- **Case: SNPVS-809** Capital Costs set in the Scheduler are now accounted for in the new reporting tool.
- **Case: SNPVS-806** Reports are now refreshed as expected after scenario changes and in response to updated economic model calculations.
- **Case: SNPVS-771** Edit ribbon >> **Outlines** >> **Generate Grids in Outlines** now shows the correct icon.
- **Case: SNPVS-739** An issue whereby some slope angles could produce slope errors greater than the maximum has been resolved.
- **Case: SNPVS-737** A project-specific issue preventing access to mill grades for reporting has been resolved.
- **Case: SNPVS-726** An issue where a forced limit pushback boundary causes vertical walls to form close to the topography has been resolved.
- **Case: SNPVS-726** The "Break at Intersections" ribbon tooltip no longer contains a typographic error.
- **Case: SNPVS-725** "Edit Coordinates" is now spelled correctly on the Design ribbon.
- **Case: SNPVS-717** A project-specific issue causing the system to halt when generating the **Pit Optimization Settings** report, has been resolved.
- **Case: SNPVS-717** A data-specific issue causing Rock, Total Ore and Total Waste values in the new report tables to differ from legacy reports, has been resolved.

- **Case: SNPVS-711** An issue causing the system to become unresponsive, if accessing control bar help before a project is opened, has been resolved.
- **Case: SNPVS-708** An issue causing unexpected pushback slopes has been resolved.
- **Case: SNPVS-695** A data-specific issue causing incorrect exported economic values has been resolved.
- **Case: SNPVS-693** An issue causing recalculated pushbacks to differ from pushbacks run normally with same settings, has been resolved.
- **Case: SNPVS-686** Changing the active scenario correctly updates chart and report items.
- **Case: SNPVS-685** Visualization of imported block models is now restricted to imported .dm files.
- **Case: SNPVS-675** A data-specific issue causing system failure when generating pushbacks has been 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-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** @BOUND TYP is no longer supported in the **PTCL2WF** process.
- **Case: CORE-7390** **SELWF** now assigns attribute values based on the order of input wireframe data, reinstating legacy behaviour.
- **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** are 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 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-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 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-6839** An issue causing incomplete export to Surpac .mdl format has been resolved.
- **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** output 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 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-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 now 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-6137** An issue causing unexpected A0 and B0 results in output from **COMPDH** has been resolved.
- **Case: CORE-6124** An issue preventing the import of a large number of 3D display templates in one action has been resolved.
- **Cases: CORE-6039, CORE-5674** **Linestyle** and **Thickness** attribute values are now exported to DXF and DGN as expected.
- **Case: CORE-6003** Text boxes are now 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.
- **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-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-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 now permits alphanumeric columns to be exported in Microsoft Access format.
- **Case: CORE-2692** Spinner button behaviour in **Tools >> 3D >> Initial States** is now as expected.

- **Case: CORE-2405** **COMPDH** now 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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