DATAMINE

STUDIO EM

A Tailored Solution for Geology and Exploration Professionals

STUDIO EM

Release Notes

Studio EM 3.0.58.0

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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

A tailored solution for geology and exploration professionals, **Studio EM** leverages the technology of Datamine's hugely successful Studio software series, making it highly compatible with many other software packages. Studio EM is the perfect geological analysis solution for increasing productivity and on-site efficiencies.

Studio EM 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 EM 3.0.58.0.

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

For the complete Studio EM documentation, see https://docs.dataminesoftware.com/StudioEM.

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.

acQuire Data Connection - Failure after Upgrade

Technical Note: TN00441

Background

In October 2023, Studio products supported by the acQuire Data Provider (for example, Studio RM) benefited from an upgrade to allow access to the latest capabilities. This driver update included an important 'wireframe constraint' feature and several other improvements. This driver update was deployed through our standard mechanism - Data Source Drivers, starting with Studio RM 2.0.

Unfortunately, this update to the acQuire Data Provider cannot be fully compatible with legacy acQuire-supported products and a compatibility break is unavoidable. This can lead to a failed acQuire data connection in a legacy product following the installation of a newer (but different) product on the same system.

An example of this could be installing Studio RM 2.0 onto a system where Studio RM Pro 1.13 is already installed, and those products exist side-by-side.

What's the Problem?

This issue only affects you if you need to connect to an acQuire data source through both a legacy (pre-October 2023) and new (October 2023 or later) application that is running on the same system.

If a new acQuire Data Provider is installed on a system that already hosts an older (pre-October 2023) application that makes use of the same data connection, the older application attempts to use the newer driver, and encounters a situation where files needed by the newer driver are not available.

As such, when the newer application is installed, the older application is no longer be able to access data through the acQuire Data Provider. The newer product will continue to have access.

What's the Solution?

> **Note**: This procedure will only be needed if you are running a combination of pre-October 2023 products and newer products side-by-side on the same system. As newer versions are installed over time, this procedure will become unnecessary.

It depends on whether you need access to an acQuire data source for your projects or not.

If not, there's nothing to do. This issue won't affect you.

If you need both legacy and new applications to connect to an acQuire database, you'll need to add some files to your system. It will only take a few minutes, using the following procedure:

1. Ensure you are accessing Windows using an account with administrative privileges.
2. If a failing legacy product is running, close it.
3. Download the "AcquireFix.zip" archive from the following URL:

   https://dataminesoftware-my.sharepoint.com/:u:/p/productstore/EWxsrZ0K5c5Prmpv9YXJpUIBFcuC0d3XaevjD1FR-tk9YA?e=8OAxfx
4. Open the archive. The archive contains four files:
   - oc1101as.dll
   - oe1101as.dll
   - og1301as.dll
   - RWUXThemeS10.dll
5. Copy these files to a temporary location, outside of the archive.
6. In a folder browser, open the "Bin" folder of the legacy product that cannot connect to an acQuire data source following the installation of the newer product. For standard installations, this is at a location similar to **C:\Program Files\Datamine\[Product Name]\Bin**, for example, **C:\Program Files\Datamine\StudioRM Pro\Bin**.
7. Copy the files from the temporary location to the folder path above. Depending on your operating system access settings, you may need to confirm this action, possibly several times.
8. Once all new files are in place, restart your legacy application. Both it and the newly installed product will be able to access acQuire data.

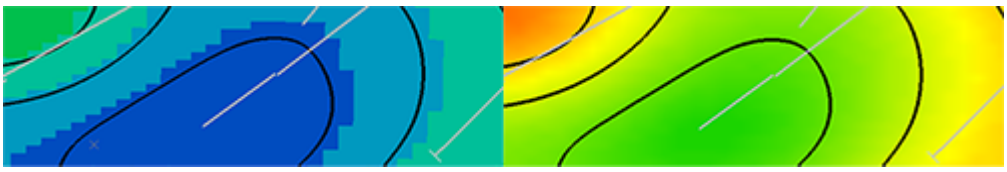
Studio EM 3.0 Release Notes

> **Important**: **Legacy application access to acQuire data sources**: An unavoidable compatibility break has been introduced with this version's installation of acQuire Data Provider components. This will prevent legacy applications from accessing an acQuire data source after this product is installed. A workaround for mixed environment users is provided below (see "acQuire Data Connection - Failure after Upgrade").

Key Improvements

Smooth Contour Grid Colouring Options

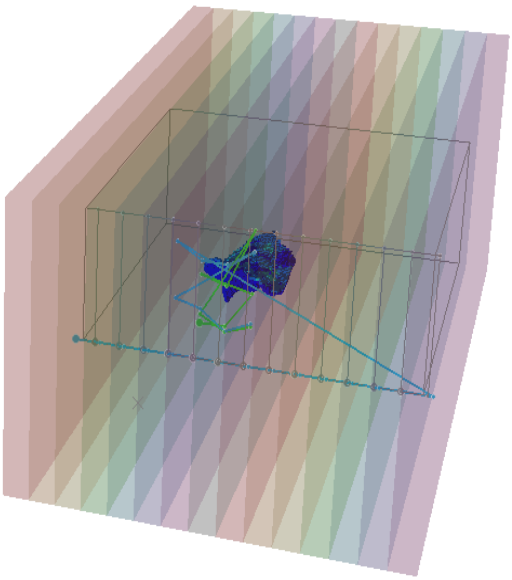
Generate a 'smooth' contour grid legend to show subtle variations in contour values between contour isobars. Select from a range of custom smooth legend options and your output grid model displays smooth colour transitions between contour landmarks.



GETSAMP - Get Sample Data from Desurveyed Drillholes

A new process - **GETSAMP** - lets you create a flat sample file from selected drillhole attributes.

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.

Multiple Attribute Range Legends

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

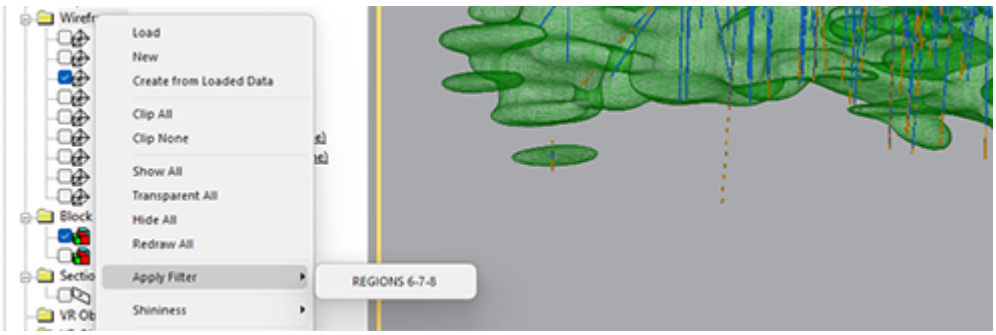
Attributes from Perimeters

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

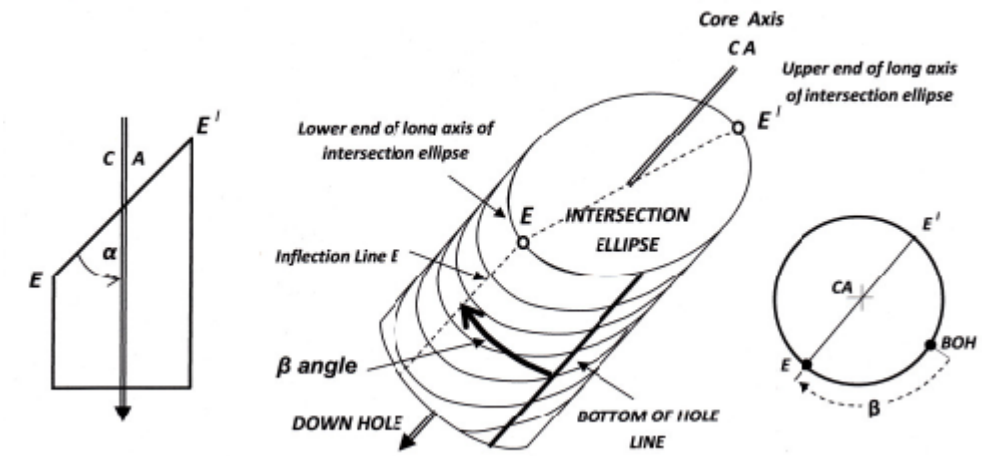
You can now use the quick key combination "tds" to swap between full drillhole and independent sample data selection in a **3D** view. A new command - toggle-drillhole-selection - is also available.

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.

Calculate and Display Structural Orientations



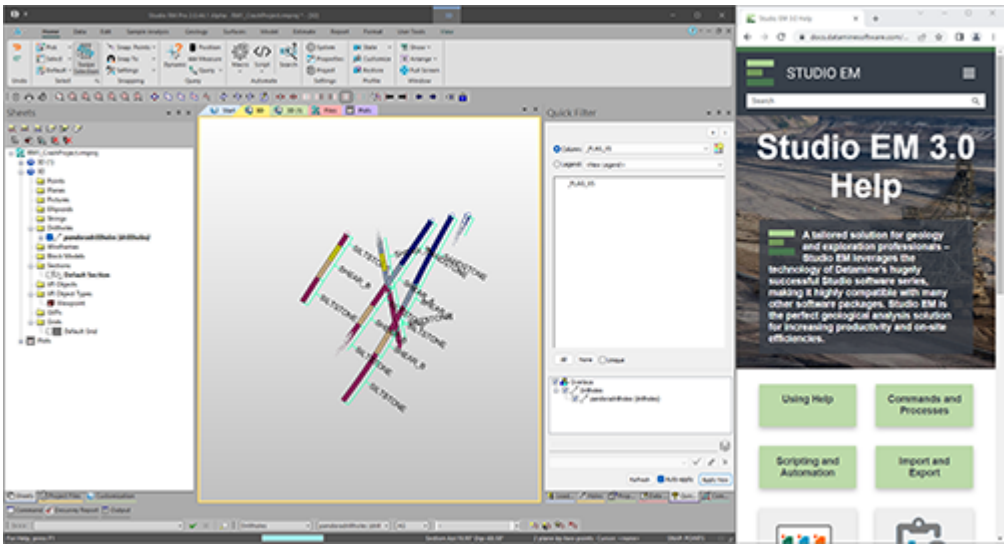
Define and format 2D or 3D drillhole structural symbols using a new 3D properties screen. Choose up to 3 orientation angles and render core sample orientation data using a wide range of visualization options.

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.

offset-string Improvement

offset-string accommodates a wider range of input string shapes than before, including strings with near-coincident points that could previously generate erratic offset string shapes. You can also define a tolerance distance for overlapping strings in the current view orientation to allow structures such as declines to be offset accurately, and also omit unwanted self-overlapping sections.

A New Look & Feel



A streamlined experience for exploration geologists. Based on feedback, we have reorganized and refreshed the ribbon system, and it's now more intuitive and easier to navigate.

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

- Export Vulcan .bmf block models to file sizes up to 4GB. Previously, the limit was 2GB.

All Improvements

Commands & Processes

- **Case: STEX-199** The measure button on the **Home** ribbon now runs the **Query Line** command.
- **Case: CORE-7632** Contouring commands now tag output data with their source command name.
- **Case: CORE-7581** Legacy GRAPHICS and SCREEN windows no longer appear in your product.
- **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-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-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** has a *@TOLERNCE* parameter.
- **Case: CORE-7141 SELWF** has a *@SETABSNT* parameter.
- **Case: CORE-7112 offset-string** accommodates a wider range of input string shapes than before, including strings with near-coincident points that could previously generate erratic offset string shapes.
- **Case: CORE-7102** Choose **Smooth Legend** output when generating contour grids, allowing higher resolution colour maps to display.
- **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-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-6152** Quickly **store and reinstate quick filters** using the **Sheets** control bar's context menu.
- **Case: CORE-6148** Choosing to auto-align a section after creation no longer automatically zooms to fit all data in the 3D view.
- **Case: CORE-6148 DECLUST** now supports retrieval criteria.
- **Case: CORE-6086** By popular request, the **unlink-wireframe** command has been reinstated.
- **Case: CORE-6053 STATS** has *@PRINT* options to control the scope of control bar report output.
- **Case: CORE-5954** The **Multiple Attribute Legend** wizard can be used define numeric ranges as well as distinct values. This provides greater flexibility when generating visualization or evaluation legends.
- **Case: CORE-5941** Define and format **2D and 3D drillhole structural symbols**. Choose up to 3 orientation angles and render core sample orientation data using various visualization options.
- **Case: CORE-5861** Use **string-at-gradient-on-wf** to generate on-surface strings (such as surface roads) between start and end points, honouring a maximum gradient.
- **Case: CORE-5223** Enabling **Lock View**in a 3D window no longer adjusts the zoom setting of that view.
- **Case: CORE-5198 Automatically align the view** when defining a 2 point section.
- **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-6641 GETSAMP** - a new process - has been added to extract flat sample file information from static drillholes, preserving interpretations.
- **Case: STUDIO-1095 COMPDH** can composite both down and up holes, using a @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

- **Cases:** **STEX-193**, **STEX-194**, **STEX-196**, **STEX-190** Studio EM 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-7183** New look and feel options are available.
- **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-6767** Define custom cursor length intervals <1.
- **Case:** **CORE-6735** Hover your cursor over the object name in the **grid-dtms** screen to display the name in full.
- **Case:** **CORE-5442** The **3D Templates** screen is reorganized and iconized to make template creation and application simpler.
- **Case:** **STUDIO-6629** A new process - **GETSAMP** - lets you extract sample data from a drillhole file to preserve interpretations.

Utilities & Supporting Services

- **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-7267** The **Command** toolbar icons have been updated.
- **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-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”.
- **Cases:** **CORE-5442**, **CORE-7118** Export Vulcan .bmf block models to file sizes up to 4GB (previously, the limit was 2GB).
- **Case:** **CORE-6816** A maximum fields check and warning display for Vulcan, Surpac, Text, MineSight and Micromine drivers.

- **Case:** CORE-6816 Export an object attribute containing DXF line style names.
- **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-5809 Import **Amine-format SQL tables** using the ODBC driver.
- **Case:** CORE-5020 When importing **Micromine block models**, field names are no longer limited to 9 characters. They can 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:** 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-7684 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-7390 **SELWF** now assigns attribute values based on the order of input wireframe data, reinstating legacy behaviour.
- **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 calculated for non-convex shapes.
- **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 initializes correctly.
- **Case:** CORE-7171 Breaking strings with other strings (BKI or BKS) correctly breaks the target string.
- **Case:** CORE-7145 After breaking a string with another string (BKI or BKS), attributes are edited correctly on resulting string segments.

- **Case: CORE-7139** In **COPYMOD**, default values of the new origin and angles are being set correctly set when angles and origin are blank.
- **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 consistent between multiple runs with the same settings and data.
- **Case: CORE-7099 COMPSE** will ignore trivial gaps between concurrent samples.
- **Case: CORE-7091** Internal block model blocks are rendered correctly in the 3D view when clipping.
- **Case: CORE-7094 edit-model-cell-values** responds correctly to data unload operations.
- **Case: CORE-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-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-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 rendered in the correct way when object opacity is reduced.
- **Case: CORE-6983 DESURV**: Under some circumstances zero length or horizontal samples when using *@ENDPTS=1* could result in corrupted *B0* ouput values. This has been resolved.
- **Case: CORE-6978 DILUTMOD**'s subcell checking routines provide useful user feedback instead of creating (potentially) arbitrarily large model outputs.
- **Case: CORE-6915** An issue causing system failure, when resetting the customization profile from **the Quick Access** menu, has been resolved.
- **Case: CORE-6877** The system no longer halts unexpectedly if the file source of a histogram chart cannot be found.
- **Case: CORE-6839** An issue causing incomplete **export to Surpac .mdl** format has been resolved.
- **Case: CORE-6822** Adjusting the scale of a plot no longer causes unexpected repositioning of labels.
- **Case: CORE-6818** An issue preventing accurate data picking in 3D views, when high magnification has been applied, has been resolved.
- **Case: CORE-6814 DECLUST** 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** dialog 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-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-6167** The dialog labels for the **MODTRI** process have been corrected.
- **Case: CORE-6166** The dialog labels for the **BLKTRI** process have been corrected.
- **Case: CORE-6160** The **Project File** control bar's **Pictures** folder, if displayed, displays a title as expected.
- **Case: CORE-6138** A data-specific issue causing **SELPER** to fail to sort the output by IJK has been resolved.
- **Case: CORE-6137** An issue causing unexpected A0 and B0 results in output from COMPDH has been resolved.
- **Case: CORE-6131** An issue that could cause **create-ramp-string** to fail with a particular gradient, radius and distance end limit settings has been resolved.
- **Case: CORE-6128****break-strings-at-intersections** produces string breaks in expected locations.
- **Case: CORE-6124**An issue preventing the import of a large number of 3D display templates in one action has been resolved.
- **Case: CORE-6101** If a plot sheet is created without others existing, the legacy **Design** window is no longer displayed at the same time.
- **Case: CORE-6095** Running the **unlink-triangle** command will automatically deselect any previously selected triangles.
- **Case: CORE-6080** The **Texture from Object** setting is correctly applied from a visual display template.
- **Case: CORE-6072**The URL to project startup scripts is decoded to remove escape sequences.
- **Case: CORE-6060**An issue, that could cause system failure when applying a 2D label of *BHID* to loaded dynamic drillholes, has been resolved.

- **Case: CORE-6043**The grid value for the weighting column is no longer reset if it has been pre-defined (e.g. from Evaluation settings).
- **Cases: CORE-6039**, **CORE-5674** Linestyle and Thickness attribute values are exported to DXF and DGN as expected.
- **Case: CORE-6003** Text boxes are displayed as expected when switching back to **Plots** from the **Print Preview** window.
- **Case: CORE-5626** During volumetric block modelling, records are no longer saved in the control files if they have empty or non-existent filenames.
- **Case: CORE-5502** The Plots window correctly honours *SCALE* when a section definition file is applied from a script.
- **Case: CORE-5238** An issue causing the Data Converter to fail when accessing it via script has been resolved.
- **Case: CORE-5209** An issue causing alphanumeric field data to be imported incorrectly via the ODBC v2 driver has been resolved.
- **Case: CORE-4632** **WFCODE** no longer incorrectly sets alphanumeric zone fields to numeric if *@SETABSENT=1*.
- **Case: CORE-4333** Drillhole data selection in the 3D window is now more accurate with large data and high scaling.
- **Case: CORE-4238** A typographic error in the **E-W Section** ribbon button tooltip has been corrected.
- **Case: CORE-4085** In **COMPBE**, where *FROM-TO*s are greater than *@MINGAP*, compositing will continue at the next interval of the same hole, and won't skip to the next BHID as previously.
- **Case: CORE-3694** An intermittent issue causing 3D window zooming to fail after filtering has been resolved.
- **Case: CORE-3189** Unexpected rounding results in the *A0* and *B0* columns when using **COMPBE** have been resolved.
- **Case: CORE-3076** The ODBC v2 driver permits alphanumeric columns to be exported in Microsoft Access format.
- **Case: CORE-2692** Spinner button behaviour in **Tools >> 3D >> Initial States** is now as expected.
- **Case: CORE-2405** **COMPDH** produces accurate results when the *EOH* interval is 0.
- **Case: CORE-1449** An issue causing **COMPBR** to become unresponsive with certain interval values has been resolved.

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