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Leapfrog Works 2025.1

new release



Leapfrog 2025.1 Release Notes

Seequent is proud to present Leapfrog 2025.1, a landmark release of Leapfrog.

The latest version delivers a feature-packed, high-quality release synonymous with our market leading solution for 3D ground modelling within the civil and environmental industries.

Leapfrog 2025.1 provides enhancements to cross sections to communicate ground conditions, simpler and more accurately with stakeholders and colleagues. Associate information such as standardised classifications with volumes, whether they are modelled as a geological model or an imported or extruded mesh.

We invite you to explore the content below, deep dive with our feature highlight videos and reach out to your local Seequent team to learn more.

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1. Leapfrog Features and Functionality

1.1. Better Models with Refreshed Structural Trends

Understanding the structural controls and complexities of a deposit is a fundamental step in any geological interpretation. Leapfrog's structural trend informs numeric, intrusion and indicator interpolants, where it is used to better transform the interpretation into geologically plausible geometry models. No model is perfect, but a structurally informed model can better assist understanding mineralisation, continuity or discontinuity and ultimately, new target identification and areas for resource definition drilling.

Since its introduction, the structural trend has been essential in making implicitly modelled surfaces and volumes geologically meaningful and useful. However, it has not been without its limitations and challenges, for example how intelligible the inner workings are.

In Leapfrog 2025.1, a significant effort has been made to overhaul the structural trend's usability, visualisation and data handling. The updates not only provide a more precise and cohesive presentation of the data but streamline the workflow by reducing time spent on trial and error. These improvements reflect our commitment to continually advancing Seequent's core modelling capabilities, ensuring they meet the evolving needs of our users.

Structural trend types and compatibility

Generating a "good" trend previously involved somewhat of a trial-and-error approach. Several options under trend type and compatibility were available however the impact and outcome of using one option over another was not obvious, nor was there ample information to assess suitability of the options for selected input data.

By design, Leapfrog aims to deliver scientifically sound and intuitive workflows underpinned by smart defaults and algorithms that can be validated quickly with excellent visual capabilities. The following updates have been made to align the structural trends to this core principle:

- · Trend type selection: a quick description of each type is presented to the user as a first step.
- Change trend type: should you wish to experiment and test different trend types; a post processing option can be used to change from one trend type to another without having to recreate new objects.
- Dialog design: once a trend type is selected, only controls and settings relevant to that trend are presented to the user. This removes a previous source of confusion where parameters were presented, potentially updated by the user, but were not actually utilised by trend.
- Deprecate redundant functions: a consequence of product development over Leapfrog's lifespan is that some features and functionality become redundant. Version 1 and 2 'compatibility' in structural trends is an ideal example of this. An improvement to data clustering was added to the software as Version 2. A more stable and reproducible implementation, Version 2 has been the default setting for some time however, at the time, removal of Version 1 could not be done without putting existing projects and workflows at risk. This is no longer the case, and therefore this redundant option can be tidied up.

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Name: Structural Trend	Uses the triaxial direction and strength from ellipsoid data. Structural data or mesh inputs will be blended in based on the strength and range.			
		Name: Structural Trend		

From Leapfrog 2025.1 onwards, new structural trends will not have the option of Version 1 compatibility. However, upgrading projects to Leapfrog 2025.1 will preserve preexisting Version 1 compatibility structural trends. When a preexisting Version 1 structural trend is opened in Leapfrog 2025.1, the clustering tab will have a dropdown with version 1 displayed. You can decide to keep this setting, and no changes will be made. If you change the compatibility to Version 2 clustering parameters will become available. Clicking OK to commit this change, will prompt a final confirmation as this change cannot be undone.

Compatibility:	Version 2	
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Data handling in structural trends

In Leapfrog 2025.1, each input data type can now have a query filter applied. A small addition, but useful where subsets of data are required as the input to a structural trend.

The most notable change is the new 'clustering' parameters. Clustering refers to the algorithm that calculates local orientations from the input data (contact points or structural disks) then groups these into cluLeapfrog Psters of similar orientation. The process of clustering, described as 'domaining' in previous communications, has always been a part of the structural trend process, though its controls were not exposed. Furthermore, it has not been well explained in Leapfrog that clustering, though part of the structural trend, is related to the input points of the surface or model to which the structural trend is applied, and the results of clustering can have a profound effect on the modelled surface.

The benefit of controlling clustering is best described through the context of applying the structural trend to a surface with a mixture of data sources. Consider a combination of exploration data, often sparse, and resource data, often dense, being used in a numeric model. Previously, with unexposed hard coded clustering parameters, this combination of data densities would generate unwanted breaks in the modelled volumes, despite the use of a structural trend to inform continuity across those breaks. This situation could not be improved through adjusting any of the available settings in the structural trend or surface interpolant.

Now, clustering settings can be adjusted to better fit the input dataset of the model. If a numeric model has a combined dataset of 128,567 input points, a minimum cluster size for the structural trend is set to 1,285 (1% of 128,567, a recommended proportion based on internal testing) and the maximum is set to 12,857 (10 % of input points, a recommended proportion based on internal testing). Setting a consistency threshold of 0.6 (recommended based on internal testing) yields 95% consistency between clusters. These settings will produce a more continuous volume which honours the geological interpretation and the structural trend more closely.



Structural Trend Clustering Before Adjusting Parameters



Structural Trend Clustering After Adjusting Parameters - a more continuous volume with fewer clusters.

Structural trend visualisation

Several improvements have been made to the visualisation of the anisotropies of the trend as well as the visualisation of the clusters.

Once the structural trend has been applied to a surface or model, clustering can be visualised by extracting the cluster information and evaluating it on the input dataset. Visualising cluster information on the input points can help with comparing and validating the results produced by the structural trend and clustering parameters. It can also be used to better understand the impact of clustering for different datasets when other factors like trend type and surface interpolants remain the same.



A new customisable visual representation of the structural trend replaces the fixed 10 x 10 x 10 grid of previous versions. This enhancement offers a more accurate and user-friendly depiction of the trend and can match the actual extents of the input data. The trend can be visualised within a specific domain as well as any custom grid setting. Additionally, block models can be used as a grid to inform the visualisation of the trend.

Display options include orientation information and strength . The strength parameter describes how many times stronger the trend is in the maximum and intermediate plane than in the minimum direction. Strength will affect the relative weighting of the input data on the blending of the structural trend for each trend type. Input data with higher strength makes a greater impact on the blending.



1.2. Improvements to Stereonets

The volume and variety of structural measurements and information collected from core, field and face mapping has been increasing and with ML and other technological advancements in core scanning and processing this is set to grow even more. It is often difficult to extract due to a lack of features and functionalities in software.

In Leapfrog 2025.1 several improvements have been made to improve the user experience and to facilitate analysis of an increasingly rich quantity of structural data. These improvements include:

- The layout of panels, controls and legends have been redesigned and improved, providing easier and more familiar interactions.
- Numeric data from imported numeric columns (e.g. confidence, drillhole support, logged depth) can be visualised in the stereonet with editable colourmaps.



1.3. Streamlined Model Updates - Face Mapping using Polylines

Polyline append

Building on the release of polyline attribution in Leapfrog 2024.1 we have continued to improve polylines in Leapfrog for 2025.1, further enhancing how mapping data is incorporated into the model.

Importing multiple Polyline files can quickly create a data management headache, with hundreds of polylines for each new set of mapping data. Managing this data can be a time-consuming and click-heavy process, especially when new query filters must be created to use the mapping in downstream modelling.

To remedy this, polylines can now be appended from file, allowing mapping data to be managed as one polyline object in the Leapfrog project. Consequently, model updates are more streamlined and considerable time can be saved.

The polyline importer now features a count of how many new polylines will be created during import. Additionally, 'Annotation_id' is auto detected as a line separator, speeding up the import of mapping data created by Rock Mapper.

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Smarter attribute table

Editing and adding new attributes is easier than ever before with the enhanced attribution table, allowing for direct table editing, without going through the scene category selection process. The attribution table can be opened from the shape list properties with the row of interest highlighted, allowing for the rapid in-table editing and/or addition of new data, including entirely new columns of different data types.

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Optional polyline tangents

Tangents, while extraordinarily useful, are not always required when adjusting model surfaces and when not needed, added clicks and frustration. In this release, we added a new Polyline drawing option to digitise lines without tangents, removing the need to delete them afterwards. The default choice for this option can also be configured in the Leapfrog settings under Scene / Editors.

Tangent information was previously automatically added onto imported Polylines, which can lead to unexpected model results as the orientation was often not correct. This behaviour has been removed so that imported Polylines will no longer get Tangents added by default.

When editing Polylines, other lines can often get in the way of the scene view. To address this, we have now enabled query filters to be switched while in polyline edit mode.



1.4. Data Preparation, Visualisation and Analysis

Combine Point Sets

Commonly, numeric values from different sources are imported into a Leapfrog project as separate data types (e.g. drilling intervals and points). Combining these data sets for downstream workflows was a tedious and manual workaround, often forcing users out of Leapfrog and into a spreadsheet.

A new option to combine point sets, enables more flexible and comprehensive workflows mitigating the need to leave Leapfrog and reducing the opportunity for errors in data preparation.

For example, in numeric modelling or resource modelling workflows, users had to choose between points or drillhole intervals as an input. In some cases, additional values could be added to the model but data analysis via statistics, creating calculations and filters were not possible on the combined input values. Now, the process of combing mixed data sources has been streamlined into two steps; extract point values from interval data and combined the point sets to create a combined data set. Not only does this provide a quicker dataset to use in modelling, but it also provides the same optionality as a standard point table.

New Combined Points can use any available imported points tables, downhole points, interval mid points, and grid of points.





Combine Structural Data

Like point datasets, structural datasets can often come from different sources. Core logging and surface and face mapping are imported into a Leapfrog project and saved to Drillhole Data and Structural Modelling folders, respectively. Alternatively, due to data collection advances over the life of an operation, structural information can be recorded and stored as different tables for example, historical manual logging versus measurements generated through automated fracture detection and analysis.

Where both datasets are useful as a single input to subsequent processes, a new option to combine structural datasets removes the need to leave Leapfrog to achieve this.

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Survey data analysis

Leapfrog 2025.1 builds on functionality to analyse survey data to derive meaningful insights on drilling data, as well as generate derivations of the data to inform activities like drillhole survey analysis and planning.

The combination of calculations and statistics on the survey table allows for investigations on survey data such as dogleg severity analysis. Rather than being limited to just one factor when using the category from numeric option, you can combine several factors such as orientation, dip and distance to an element of interest (e.g. planned stope or fault) to gain deeper insight into what combination of conditions lead to high DLS.

In this example, a nested If statement can be used to ascertain which compass bearing (SW, SE etc) experiences the highest DLS as well as the impact the distance to a fault surface has on DLS. Labelling survey measurements with lithology codes provides an extra layer of context.



A quick look at the statistics shows a more holistic impression of which compass bearing has the highest number of high DLS measurements as well as a sense of potentially erroneous outlier data.



By convention DLS is usually expressed as degrees deviation per 30 distance units but those requiring a different value for the unit length, e.g. in the US degrees/100 foot is commonly used, a new option to configure the dogleg severity unit length has been added to the survey table.

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Calculations on more tables

Calculations are generically useful and, where possible and sensible, the ability to create a calculated column will be added to morbootse tables. In Leapfrog 2025.1 the option to create variable, numeric and category calculated columns has been added to the following tables:

- · Collar
- · Downhole lineations (on drilling)
- Downhole structural data (on drilling)
- · Lineations (structural folder)
- Structural data (structural folder).

Correlation set as scene filter

Correlation sets can be used to filter data in the 3D scene, enabling a quick and simple way to represent the data being analysed in the correlation view in the 3D scene. The correlation set filter can be selected from the scene properties drop down for the following data types:

- · Collars
- Intervals
- Structural data
- Screens
- · Composite data.



Visualise hex colours in the correlation view

Colour is a fundamental piece of geoscience data, increasingly being autogenerated as part of core photo capture. It helps identify changes in rock type, mineralogy and alteration, for example. Having colour information, such as Imago's core tray dominant colour, visualised alongside assay, lithological logging, and downhole geophysics in the correlation tab and the 3D scene can help with creating and updating interpretation tables and in some cases with decisions when modelling contacts.



Interval Selection Validation Checks

Over several releases, the rigidity of the validation checks performed when drilling data is re-processed have been relaxed so that interval selection edits behave as expected when the interval tables on which they are based are reloaded. In the first iteration, improvements were made to add a tolerance to interval 'from' and 'to' matching, and to handle the situation where intervals are split.

In this release we now also handle the situation where adjacent intervals in the data base are merged, for example after relogging. Provided the start and end points of the new interval matches the previously adjacent intervals, and these all have the same interval selection code, then the interval selection is preserved.

EDIT 1	EDIT 2	EDIT 3						
	SEGMENT							

Edits can be un-matched because the target segments have been merged into a longer segment

This behaviour has been improved in Leapfrog 2025.1.



Designs visualisation improvement

A compulsory update to the code that handles importing design files included some improvements for design files in Leapfrog.

It has been noted that certain files, particularly those designs with complex geometries, have a cleaner visualisation with fewer overlapping lines. It was also found that the files which opened in MicroStation but caused an error in Leapfrog are now opening in Leapfrog without an issue. Finally, it was a previous issue that an object extruded to a particular level in MicroStation was imported incorrectly into Leapfrog. This issue has also been resolved in the latest update.

1.5. Streamlined Model Updates - Vein Edits

Importing vein edits has been updated to be more consistent with how interval selection edits are imported. In Leapfrog 2025.1, edits can be imported using a choice of three options:

- · Import new edits and **delete** all existing edits
- · Import new edits, merge with the existing edits and overwrite any existing edits, where the edit is in both existing and new lithology
- Import the new edits, merge with the existing edits and **keep** any existing edits, where the edit is in both existing and new and ignores the new edit.



Vein editing in Leapfrog 2024.1

Another small change, to retain vein mid-point edits when boundary settings are updated, has been included in this version. Edits that become invalid (refer to non-existent points) when the boundary settings are changed are now retained so that if the settings are reverted the edits are still existing and are re-applied.



Vein editing in Leapfrog 2025.1

1.6. Communicate Effectively with Cross Sections

Orthogonal or illustrative (formerly scaled) projection on long sections

Before Leapfrog 2025.1, drillholes, planned drillholes and polylines were rendered onto the section using an "illustrative" (renamed from scaled) projection method only. In certain instances, this projection style resulted in misalignment with regular points, which were projected orthogonally. While illustrative projection results in a pleasing visual it can be an inaccurate representation of data. Where this style of projection did not fit the intended purpose of the cross section, additional work was required to discretise the polyline the long section was made from. Now, an option to set an illustrative or orthogonal projection style puts the choice back into the users' hands and removes significant manual work some users faced. For Leapfrog 2025.1, drillholes, planned drillholes and polylines will have the option available. Future updates will enable more data types to also have this option.

- Illustrative Projection: This option may lack precision on long curved sections but allows for seamless integration into the section layout, providing an easy-to-understand display of non-vertical holes and lines. It is ideal for communication with management and visual reports intended for non-technical audiences.
- Orthogonal Projection: This option ensures accurate projection of non-vertical holes and lines onto long curved sections. While it may make the display less smooth, it guarantees that the projection is true to its definition, enabling users to safely share data with contractors and technical stakeholders.



Minimum distance notation

In Leapfrog 2025.1, an additional option called "Show sign" annotates the minimum distance label with a positive or negative to show its relative position to the section in 3D. The measure of minimum distance represents the closest distance any part of the data is to the section (e.g. if a polyline or drillhole trace passes through the section, the minimum distance will be 0m). For vertical drillholes, the distance is meaningful and easy to understand. For angled drillholes the distance may be difficult to interpret, and the strip view can provide better context.



Page size preset options

Before Leapfrog 2025.1, page sizes absent from the list of presets, for example 11" x 17" (tabloid or ANSI B) which are commonly used in the US, had to be customised. Setting up customised page sizes often required converting from inches to mm and there was no way to save the custom size.

To ease this overhead, the following page size presets have been added:

- Tabloid (ANSI B) (279.4 x 431.8 mm)
- · ANSI C (431.8 x 558.8 mm)
- · ANSI D (558.8 x 863.6 mm)
- ANSI E (863.6 x 1117.6 mm).

1.7. Multi-dimensional Attribution Unlocks New Workflows

Building on Leapfrog 2024.1, several additions improve how information is created on a volume or mesh in Leapfrog and how that information can be used in Leapfrog projects or other applications.

Orientations for Volume Attributes

Previously, volume attribute tables were only available on geological and numeric models. This feature allowed a new column to be created manually which could then have a value assigned for each volume within the model.



Leapfrog 2024.1

Some small but very useful improvements have been made to this table with more in the pipeline. First, you can now generate orientation columns, Dip, Dip Azimuth and Pitch, in a single action either by clicking the icon in the ribbon or using Ctrl+O. Once the orientation columns are created, orientation values can be generated quickly by using the scene's moving plane tool. Visualise the volume(s) of interest in the 3D scene, then draw the moving plane to represent the general orientation of the volume(s). Further edit the moving plane using the handles in the scene (pitch, for example, might need to be updated more specifically). When the moving plane is set satisfactorily click on the volume you wish to assign this orientation to.



Leapfrog 2025.1

Recall, that when you click and drag to multi-select several cells and click into one of the cells, you can bulk update the selected cells (only a unique input is accepted, as opposed to a set of different inputs). Use this, for example, to assign a common attribute value to multiple volumes.



The maximum trend of continuity is a very important piece of information to have per volume or where volumes can be represented by a common orientation. Please refer to Section 6.1 for more details on where this information is carried through, making assigning orientations semi-automated.

Attribute Table for Meshes

Leapfrog 2025.1 extends attribution from polylines and modelled volumes to meshes in the Meshes folder. Attribution on the modelled volumes have some limitations that are resolved by attributing meshes once extracted to the Meshes folder.

For example, when volumes in the Geological Model or Numeric Model are assigned an attribute, the entire volume, inclusive of all its mesh parts, is assigned the attribute. Any information pertaining to individual parts that needed specific communication cannot be generated. To have any distinction between mesh parts, individual parts would have to be extracted and named which was time consuming and bloated a project with a needless number of meshes.

Now, attributes are available on static and extruded meshes in the Meshes folder.



Mesh parts can be attributed with numeric, category, date and text information. These attributes can be visualised in the scene and where applicable properties can be filtered using edit colours, display filters and value filters.

Additionally, query filters can be created, and the table column configuration can be copied to any suitable mesh saving time where similar properties are being recorded for many meshes. Filters based on attributed information can be used to filter mesh parts in the 3D scene. Work is underway to allow these filters to be used as part of refining input data to a process.



Extruded Mesh

Extruded Mesh is somewhat unique in Leapfrog being an extrapolated surface or volume created from a polyline. Before, when an attributed polyline was used as an input to an extruded mesh, the attributed data was not carried through, leading to a loss of information between the input data and the output data. To work around this, the polyline would need to be copied and edited to extract individual parts and, again, a naming convention would need to be used to provide the information.

Now, attributed information flows from the polyline to the extruded mesh without any additional effort required. All the same benefits for data visualisation and filtering are available on the extruded mesh attribution table as it is for the polyline attributes.



This improvement generates simple volumes from a single attributed polyline which is a very common requirement in ground works of many descriptions.

2. User Interface and Interactions

Interactions with an aesthetic and accessible interface is firmly at the heart of Leapfrog's product design principles. Leapfrog 2025.1 includes several improvements and adjustments to ensure users continue to experience the best Seequent software provides.

2.1. Getting Started with Leapfrog 2025.1

Leapfrog 2025.1 includes changes to the 'getting started' workflow. While the interface will look slightly different, the general flow has remained the same.

After downloading and running the installation file for Leapfrog 2025.1, a new dialog requesting an account email will pop up.

Ccupi	rog Version 2025.1.0	
<u>E</u> mail	first.surname@company.c	om
	Ouit	Get Started

By entering an email address at this stage of getting started, Leapfrog can initiate some checks necessary to prepare the proceeding stages.

For existing Seequent accounts, the following stage will be familiar. If Seequent Connector is **not** signed in (unlikely, if you have been using previous versions of Leapfrog), a browser window is opened to sign in with your Seequent ID. If Seequent Connector is signed in (more likely) this step is skipped.



The next stage, to select organisation, group, product and extensions, has changed slightly. Previously, this stage was also completed in the browser. In Leapfrog 2025.1, this is completed in Leapfrog itself. The options and choices will be the exact same between both dialogs.



Leapfrog Versio	n 2025.1.0	>
Account	Rachel.Murtagh@bentley.com	
Organisation	Seequent - Test Development (Seequent)	~
Group	Test_Development_Employees	~
Product	Leapfrog Geo	~
Extensions Edge Geophysics Hydrogeolog ioGAS Link Maptek Link	у	
(?)	Quit Select Provider	Get Started

For existing Bentley accounts, changes are minimal. Only a small interface change will be noted .

× 🚱 Leapfro	g Versior	n 2025.1.0		×
Account		Rachel.Murtag	h@bentley.com	
Organisa	tion	Bentley Syste	ems Inc (Bentley)	~
Product		Leapfrog Wo	orks	~
Extension	ıs			
Cont	aminant	ts		
Geor	hysics			
Hydr	ogeolog	у		
ted ?		<u>Q</u> uit	Select Provider	<u>G</u> et Started
	Account Organisa Product Extension Cont Geop Geop	Account Organisation Product Extensions Contaminant Geophysics Hydrogeolog	Account Rachel.Murtag Organisation Bentley Syste Product Leapfrog Wo Extensions I Contaminants I Geophysics I Hydrogeology	Account Rachel.Murtagh@bentley.com Organisation Bentley Systems Inc (Bentley) Product Leapfrog Works Extensions I Contaminants I Geophysics I Hydrogeology

2.2. Speed Improvements

An important part of implicit modelling is the process of interpolation. Different interpolation methods are used in Leapfrog across many functions. For example, the intrusion surface use either linear or spheroidal interpolants. Interpolants are also used in evaluating models back onto data (e.g. evaluating a GM onto a set of points or drilling).

In Leapfrog 2025.1, a phase of improvement looked specifically at the performance and behaviour of the RBF and the techniques used in these areas. These techniques are important as they can be tailored to specific problems; in a data rich environment like subsurface modelling, the problem to solve is how to crunch large datasets faster and more optimally. An iteration on the FastRBF[™] has been developed for the spheroidal interpolant specifically. The result is an increase in speed of about 20%, meaning spheroidal interpolant run roughly 20% faster in the tests conducted.

In practice, this does not necessarily mean that the processing time to update a Leapfrog model or project will be faster by 20%. There are nuances in each project and model that are not predictable and therefore might not result in such an increase. However, in certain scenarios speed and performance could be notably faster.

2.3. Moving Meshes Between Folders

A new menu option "Move to Folder" addresses the challenges users face when managing large numbers of meshes in the LF project tree. The previous method of (multi-)select and drag-and-drop was cumbersome, especially when moving to folders located off the project tree 'viewport'.

In Leapfrog 2025.1, you can select one or more meshes and choose the destination folder, ensuring a smoother and more efficient workflow. Additionally, it includes checks to ensure that the selected objects are allowed to be moved into the chosen folder and the user can view the contents of the target folder before confirming the move to ensure accuracy.



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2.4. Colouring

Colour maps and legends are powerful visual tools for interpreting complex data. Colour codes can also be standardized across companies for mapping and communication.

The latest enhancements ensure that colourmaps, both numeric and categoric, are consistent within and across projects and you can trust your data will look the same, no matter where you view it.

Import and share category colourmap

Previously, sharing and importing colourmaps was limited to numeric continuous and discrete colourmaps. In Leapfrog 2025.1 category colours can now be imported as well as shared in the same way as numeric colourmaps.

Once a set of colours has been imported or shared, the set is added to the "Shared Colourmaps" folder in the project tree and becomes available for application to any categorical data set.

This is a significant time saving feature. Category colour standardisation within or across projects would have previously required hand selecting each colour from the colour picker which for larger datasets would have been extremely tedious.



Before



After

Default behaviour for colourmap display

When a shared colormap is assigned to one or more datasets from the project tree, it is immediately updated as the display option in the shape list. Previously, the new colormap would appear as an option in the drop-down list but had to be selected as a subsequent action.

This update applies even if the object is not in the scene; once added, it will default to the newly assigned colormap.

Point Release 2025.1.1

This release will address various issues to improve overall functionality and user experience.

Issue Summary

	ISSUE	RESOLUTION SUMMARY
1.	Unfiltered points are showing on the incorrect side of the	The issue has been resolved.
	section in a strip view	Plots will be upgraded incorrectly in 2025.1 (inverted on the y-axis for points). Newly created plots in 2025.1 are not affected by the issue. Reprocessing the strip view input points in 2025.1 will correct the issue. Alternatively, upgrading the project to 2025.1.1 will also resolve the issue.
2.	Error occurs when running a numeric model with spheroidal interpolant	The issue has been resolved. If this issue has been experienced, after upgrading to 2025.1.1, if the numeric models haven't automatically reprocessed, please adjust a setting or parameter to re-run the model.
3.	Users unable to export 3D grids in *.csv format	The issue has been resolved.
4.	Error occurs when viewing an attribute on a frozen polyline with pending processing	The issue has been resolved.
5.	Merging large interval selection/vein edits is very slow when using the keep existing option	The issue has been resolved.
6.	Duplicate interval selection columns created on the status column of an economic composite caused an error	The issue has been resolved.
7.	Strength field in non-decaying structural trends is not editable with only one data object in the dialog	The issue has been resolved and editing of the strength field has been enabled for single entry non-decaying structural trends
8.	Error when upgrading a project with duplicate hole ID	The issue has been resolved.
9.	Adding draped contours in plan view and setting the colour to elevation causes an error	The issue has been resolved.
10.	Toggling on/off the ignore option for a collar results in an error being raised.	The issue has been resolved
11.	Meshes with many parts will cause the application to lag and become unresponsive.	This issue has been resolved. Meshes with more than 10,000 individual parts will not be able to be attributed. An appropriate message will be displayed.