Surpac

Release Notes

Last Modified: Wednesday, 29 April 2020

Surpac 2020.1

Enhancements

Miscellaneous

- **Loading Hexagon .xml files generated by Leica survey instruments**

    Surpac now supports reading LandXML standard used by most Leica survey instruments:

    - Point
    - Line
    - Area
    - Triangulation
    - Road Information

    Drag and drop files from the Navigator into the **Graphics** window.

- **Use the Ranges for colour selection field to specify integer range**

    When selecting an integer attribute in the **Attribute to colour by** list, you can specify an integer range in the **Ranges for colour selection** field, using the BM GRAPHIC S ATTRIBUTE COLOUR function.

- **Change the gradient of fixed and variable sections and gradient strings levels**

    You can now use the new **Tube Gradient change** section on the *Stope shape optimization tool* form to enter the near and far direction for gradient strings levels. The new **Tube Gradient change** section is available when you select **Fixed sections and gradient strings levels** or **Variable sections and gradient strings levels** options in the **Segmentation option** list, on the *Stope shape optimization tool* > **Stope framework** tab.

- **HOOPS upgraded to the latest version**

    Surpac now includes the latest version of the HOOPS library (24.10). The upgraded graphics sub-system has improved the performance and stability of operations in the **Graphics** window.

- **Improvements in Enterprise Collaboration**

    Enterprise Collaboration now has significant synchronization and workflow improvements. You can:

    - Synchronize files from **3D**EXPERIENCE Enterprise Collaboration Bookmark Workspaces to your computer without checking out.
    - Use the new **Sync** command to download latest versions to a local cache.
    - Refresh to determine if newer versions of synchronized files exist on the server. Syncing updates the local cache version of files to the latest version stored on the **3D**EXPERIENCE platform server.
    - Drag and drop synchronized files in the **Graphics** window. If newer versions of a file exist on the **3D**EXPERIENCE server, the file is automatically updated and the latest version opened in Surpac.
    - Use the defined Windows temporary directory as the temporary directory. This will avoid any check-in issues faced in some environments for **Enterprise Collaboration**.

Geology

● **Update classification type for a selected group of points in a cached point cloud**

You can use the new CLOUD CLASSIFICATION function to update the classification type for a selected group of points. On the *Point cloud classification* form, you can:

- Select a plane of projection with the **Projection plane** list.
- Select an area that is to be constrained with the **Selection region** list.
- Apply the classification type to the selected group of points with the **Classification type** list.

● **Modify the radius of a lexicographic sphere**

You can modify the radius of a lexicographic sphere in the **Graphics** window when you use the CLOUD LEXICOGRAPHIC MESH function and click the new **Resize** button.

Applications

● **Generate MineSched compatible triobject files in Surpac**

You can use the new GENERATE SDM FOR MINESCHED function to convert **.sdm** or **.dtm** triobject files into a MineSched compatible file format.

● **Install DraftSight software separately**

The DraftSight Connector module is no longer supported by Surpac's installation and licensing options. You can open a **.dwf** file only if DraftSight and Surpac are licensed.

Tools

● **Export block model displayed as a point cloud to 3D PDF**

When the block model is displayed as a point cloud you can now use the EXPORT TO 3D PDF function to export the model to 3D PDF.

Configuration

● **Correct maximum offline days in DS licensing**

When you use the DS license, the maximum offline days is now correct for each user in different time zones.

● **New license management options**

Dassault Systèmes licensing is now available for Surpac along with the existing GEOVIA licensing. You can manage licensing using one of the following:

- **File** > **License Management** menu
- New function line commands SET DSLS LICENSE SYSTEM and SET GEOVIA LICENSE SYSTEM

Issues Fixed

Configuration

● **The Solids Repair panel could not be reopened**

You can now reopen and display the **Solids Repair** panel, after closing it by right-clicking the title bar of the panel and then clicking **Close**.

● **The File name field was blank when you saved an active new layer**

When you save an active new layer in the Layer Manager, the selected layer name is now displayed in the **File name** field on the *Save File* form.

● **An error message was incorrectly displayed when you changed the font style**

Changing the font style on the **Customise** > **Font editor** > *Font editor* form now displays a message to restart the session.

● **Renumbered object numbers were displayed incorrectly in the Graphics window**

After renumbering an object with either the OBJECT RENUMBER or TRISOLATION RENUMBER function, object numbers are now displayed correctly in the **Graphics** window.

● **Xplorpac and Quarry are only supported with GEOVIA Licensing**

Xplorpac and Quarry are only supported with GEOVIA Licensing, DS Licensing (DSLS) is not available for them.

Engineering

● **Table layout on the Stope shape optimization tool form was inconsistent**

When you use the STOPE OPTIMIZER function and data is available, tables in all tabs on the *Stope shape optimization tool* form now display three rows. If data is unavailable, the table displays only one blank row.

● **Output files not created when using STOPE SHAPE OPTIMIZATION IN BULK or STOPE OPTIMIZER MULTIPLE functions**

Output files are now created in the work directory, even if no **.dtd** file exists in that directory before using STOPE SHAPE OPTIMIZATION IN BULK or STOPE OPTIMIZER MULTIPLE functions.

● **Warning message while choosing a new block model when an existing model is present in SSO tool**

On the **Design > Stope shape optimizer** > *Stope shape optimizer* form, Surpac prompts a warning message indicating the recalculation for framework limits and rotation parameters when you choose to load a new block model when an existing model is present.

● **Invalid subeconomic stopes were created in specific data**

Invalid subeconomic stopes are no longer created in specific data, when you use the *Stope shape optimization tool* form (**Block model** > **Block Model** > **Stope shape optimizer** > *Stope shape optimization tool* form).

● **Options in the Stope orientation plane list not displayed**

Options are now displayed correctly in the **Stope orientation plane** list (**Design** > **Stope shape optimizer** > *Stope shape optimizer* > **Stope framework** tab). The list is populated based on the optimization method selected on the **Input/Output** > **Stope optimization method** tab.

Geology

● **Exporting data from a database with incorrect indexing caused Surpac to exit unexpectedly**

When you export data with incorrect indexing and table columns are not mapped to existing database columns, a warning message now appears.

● **3DM constraints were not applied on block models with zero volume trisolation**

A warning message is now displayed in the **Message window** when you apply a 3DM constraint on a block model with a zero volume trisolation.

● **Opening an LAS file with a long file name caused Surpac to exit unexpectedly**

When you open an LAS file with a file name length greater than 64 characters, Surpac no longer exits unexpectedly.

● **Saving a free block model caused it to be oriented incorrectly**

You can now save a free block model and display it with the correct orientation in the **Graphics** window.

● **Incorrect warning message displayed while loading new Micromine 2018 .dat file**

When you load a new Micromine 2018 .**dat** file, a warning message is no longer displayed and the file is displayed correctly in the **Graphics** window.

- **Cutoff value reset to lowest cutoff when extracting and displaying a secondary variogram map**

  The selected cutoff value is retained (and not reset) when you use the Indicator Kriging Variogram Modeling window to extract and display a secondary variogram map.

- **Collars incorrectly displayed when exporting blast hole layer data to 3D PDF**

  Collars are now correctly displayed when you export blast hole layer data to a 3D PDF file.

- **Selecting a constraints file displayed incorrect data**

  Correct data is now displayed on the *Enter constraints* form when selecting a constraints file from earlier versions of Surpac.

- **Classifying solids took a long time to process and populate data**

  To optimize the time taken to classify a solid on the **Solids** > **Solids tools** > **Classify SDM** > *SDM classification* form, you can view the following changes:

  - A new **Interrogate all trisolations** checkbox to read SDM files and determine attributes. When this checkbox is selected, the **Classification name** list is populated from SDM files, and the refresh button beside the list is available.
  - In the **Classification name** list, you can now enter values.
  - A new refresh button beside the **Input file name** field, to populate the **Classification name** list.
  - A new refresh button beside the **Classification name** list, to calculate the minimum and maximum values of the classification field, and populate the **From** and **To** columns.

Tools

- **Exporting point cloud or Wavefront OBJ data to 3D PDF displayed error message**

  A warning message no longer displayed when exporting point cloud or Wavefront OBJ data, with data present in the layer, using the EXPORT TO 3D PDF function.

- **Overwritten .dtm file not saved, and error message displayed**

  When modifying and saving an existing **.dtm** file, a message confirms the file has been saved. An error message is no longer displayed.

Miscellaneous

- **Changes to the Point cloud lexicographic mesher form**

  On the *Point cloud lexicographic mesher* form:

  - The **Add Sphere**, **Move Sphere**, and **Delete Sphere** buttons are renamed to **Add**, **Move**, and **Delete** respectively, in the **Sphere management** section (**Solids** > **Mesh tools** > **Point cloud lexicographic mesh** > *Point cloud lexicographic mesher*).
  - The colour of the sphere changes depending on its position in the **Graphics** window. If the sphere is:
  - ◦ Inside: colour is yellow
  - ◦ Outside: colour is green
  - ◦ Active: colour is cyan
  - The **Mesh auto repair** check box is moved to the **Output** section.
  - When you remove rows in the **Lexicographic spherical constraints** data grid, the **Graphics** window is refreshed.
  - When you click the **Save** button, a .**par** file is created.

- **File path for string file displayed incorrectly while saving and opening on a different drive**

  The correct default file path is now displayed when you use the *Save File* form to save a string file that has been saved on a different drive from the working directory.

- **DirectX removed from Surpac installer**

  The Surpac installer no longer installs the DirectX installation suite. DirectX is now integrated into Windows 10.