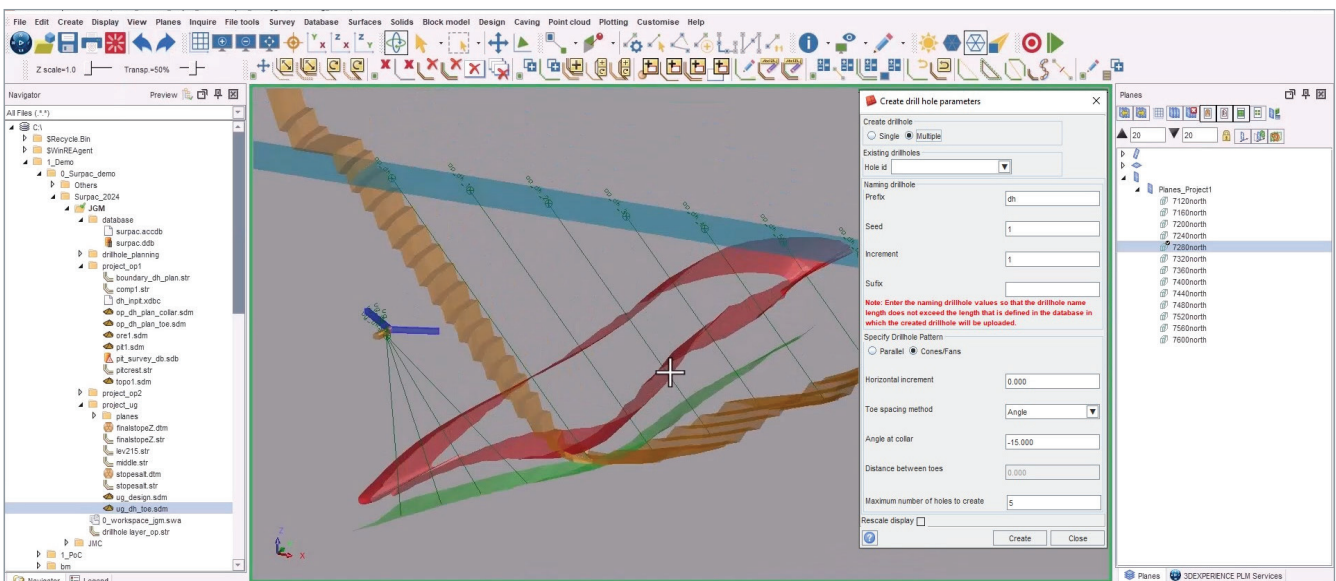# WHAT'S NEW IN GEOVIA SURPAC™ 2024

GEOVIA Surpac 2024 release has focused on introducing new caving roles, enhancing existing functionalities and fixing issues raised in previous versions. The new roles introduced are GEOVIA Cave Management System, GEOVIA Cave Planning Manager, GEOVIA Cave Footprint Finder, and GEOVIA Cave Scheduler. New capabilities have been added to the GEOVIA Sectional Geology Modeler, GEOVIA Mine Contributor and GEOVIA Block Modeler roles. There are many other general improvements available through the continued efforts to perfect existing functionalities.

NEW GEOVIA SURPAC CAVING ROLES

The new **Caving** menu contains the sub-menus for Block caving and Sublevel caving functionalities. The new caving roles are listed below:

GEOVIA Cave Management System

The new GEOVIA Cave management system role includes functions to support the block caving and sublevel caving workflows in the **Caving > Midterm Planning > Undercut Tools** menu.

GEOVIA Cave Planning Manager

The GEOVIA Cave Planning Manager role includes long term planning tools for Block caving and Sublevel caving. This enables the long and medium-term planning of a caving operation, including detail analysis per draw point, flow model analysis, and calibration.

GEOVIA Cave Footprint Finder

The GEOVIA Cave Footprint Finder role enables mine planners to quickly and effectively evaluate the different footprints at different elevations of block and sub level cave operations, before a more detailed footprint with explicit draw points is set up. The Footprint finder can be accessed from the new **Caving** menu or the **FOOTPRINT FINDER** command.
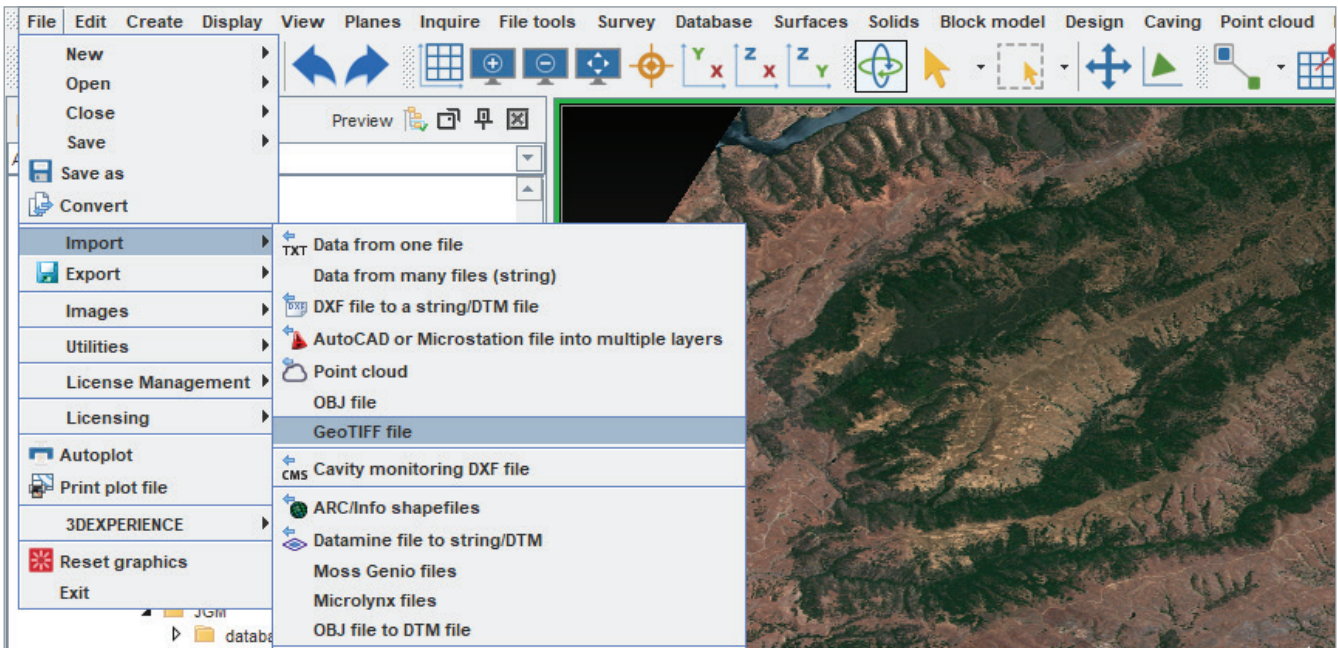
GEOVIA Cave Scheduler

The new Cave Scheduler role includes functions and tools to support the scheduling of block and sublevel caving information. The caving **Operations Scheduler** menu contains functions for **Short Interval Control** and **Sample trend estimation by LSQ**.

GEOVIA Sectional Geology Modeler

Single and multiple drillholes design functions

In GEOVIA Surpac 2024, to improve user experience and facilitate the creation of drillhole campaigns, new capabilities have been added to create and plan drillholes. The functions allow the user to define and create drillholes in the following ways:

- Create single drillhole by defining Collar and Toe coordinates
- Create single drillhole with multiple depth intervals
- Create multiple parallel holes
- Create multiple cone or fan drillhole patterns
- Extend holes where holes enter or exit a solid or surface
- Clip drillholes with surface or solid

- Clip drillholes above or below a specific elevation
- Name multiple drillholes
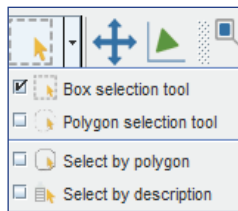- Save drillholes as strings
- Save drillholes to database

GEOVIA MINE CONTRIBUTOR

GEOTIFF file functions

GEOVIA Surpac 2024 now supports GEOTIFF file format to enhance integration and interoperability with third party file formats. GeoTIFF is a public domain metadata standard which allows georeferencing information to be embedded within a TIFF file.

New Graphical selection tools

To improve the user experience when working graphically, new selection methods have been added:

- Polygon Selection Tool: temporarily digitise polygon for selection
- Select By Polygon: select polygon for filtering
- Select By Description: specify Description field for selection

Open Surface Volume commands from 3DEXPERIENCE

DTM (XCAD 3DPart only) files from the 3DEXPERIENCE platform can be accessed for the following Surfaces Volume commands:
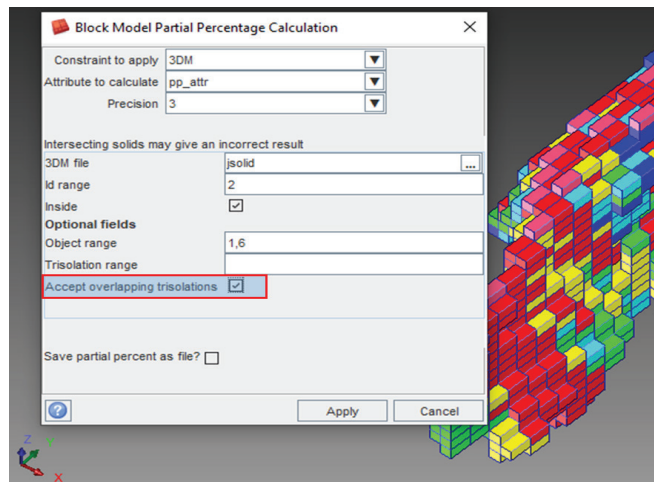
- Cut and Fill between DTMs
- Net Volume between DTMs

GEOVIA BLOCK MODELER

BM partial percentages function improvement

BM partial percentages function now supports touching trisolations of the same object by selecting the **Allow touching trisolations** check box. This feature improves the user experience when dealing with multiple overlapping trisolations.

For the full list of improvements in GEOVIA Surpac 2024, please refer to the release notes.

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