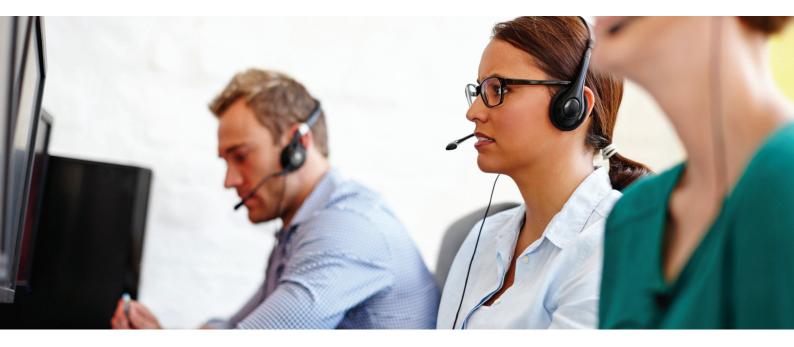# MAINTENANCE AND SUPPORT
Software updates 2015

Dassault Systèmes considers our relationship with our valued customers as an ongoing partnership, through which we listen to your concerns to help provide lasting service and value to enable you to achieve maximum benefit from your GEOVIA investment.

A Dassault Systèmes GEOVIA Maintenance and Support subscription plays an important role in ensuring your operation remains as productive as it can be, both today and tomorrow. As a member of Dassault Systèmes' GEOVIA Maintenance and Support plan, you benefit from regular critical updates and enhancements to ensure your GEOVIA software is current and functions optimally with the latest GEOVIA innovations.

You have access to GEOVIA's industry-leading Technical Support when you need it, provided by your local GEOVIA Center of Excellence 24/5, or available 24/7 online. The Support website, available to you as a maintained customer, also houses a wealth of reference materials, tools, and communities to help you maximize your proficiency with your software.

Here are just a few of the highlights that only Maintenance Support Members received:

GEOVIA SURPAC™

- Significant design improvements vastly increase the processing speed of block models.
- Support for multiple CPU cores and other improvements
- Up to 95% reduction in processing times for block model operations such as grade estimations, block maths, constraining, and reporting is achieved.
- Up to 200 times performance improvement to inverse distance, ordinary and simple kriging, and nearest neighbor estimations.
- Multiple scenarios are more quickly created analyzed and validated leading to better performing block models.
- Improved loading of Vulcan and Datamine block models.
- Improvements to Variogram modelling including image saving, and validation of nugget, sill, and range.
- Enhancements when loading XPAC .dat, Microstation .dgn ESRI .shp files, AutoDesk .dwg and .dxf files and large Datamine block models.

GEOVIA GEMS™

- GEMS now supports SQL Server 2012.
- Survey project load and display enhancements for faster opening/loading of survey project data particularly when working with larger survey datasets.
- Underground Tunnels attributes may be easily modified for plane or tunnel type. Improved Tunnel intersection algorithm creates valid solid intersection where tunnel centerlines intersect.

- Enhanced session file management allows saving, quick reload and view of data resulting in fast database retrieval for better sharing of individual work.
- Enhanced volumetrics reporting allows an addition level of sorting of the report by any string value in block model.
- Geostatistics enhanced to include a sample variability model when kriging.
- Two new declustering features provide enhanced capabilities for pre-processing and analyzing.
- A new function to rotate polylines provides more efficient CAD design.

GEOVIA MINEX™

- Minex now fully supports Windows 8.1.
- Borehole Database improvements include dynamic updating of Borehole database samples.
- Dump Scheduler enhancements include:
  - Improved haulage and truck cycle time reporting.
  - Dump sequencing control panel.
  - Waste volume calculation and report.
  - Improved dump reporting from database.
- Underground Design and Reserves features the addition of Panel Type to assign/calculate costs and other attributes on a panel basis to realistically representing changing conditions.
- Underground Design and Reserves has a slope factor that can be computed and stored as a panel variable, and can calculate and report the distance of each equipment item from any shaft.
- Borehole Database Seam Validation has a new thickness tolerance field.

GEOVIA MINESCHED™

- 64-bit version, standalone installation and software updates eliminate the dependence on a Surpac license to start MineSched and provides tighter integration to your non-Surpac GMPs.
- Enhanced inter-operability with GEMS and Minex, and other mine planning packages through support of multiple file formats when importing/exporting block models, solid, surface, polygon, and polyline files:
  - Export formats supported: Datamine, Vulcan, Mapinfo, Micromine, AutoCAD.
  - Import formats supported: CSV, Datamine, Vulcan, Micromine, Microstation, MineSight, MapInfo ArcInfo.
- Improved support of faster and larger file sizes for exporting schedules via Microsoft Project.
- Enhanced haulage features applies a search radius to specify the maximum distance a block can travel to a haulage bench or ramp preventing trucks from travelling unrealistic distances and paths to find a haulage ramp.
- Import and use a block model from virtually any source to build mine schedules by creating models by importing from CSV and defining a new .fbm (Free Block Model) block model in MineSched.

- Displays up to 63 resources on the 3D Canvas for underground scenarios (increased from 31).
- Improved performance when running manual precedence loop detection by 20 to 40 times.

GEOVIA WHITTLE™

- 64 Bit Processing enables the handling of large datasets, extending the limit of files sizes, for more efficient processing of data in addition to increased scheduling accuracy as a result of improved algorithmic decisions.
- A new Block Model Import Wizard provides a simplified workflow for exporting files from Surpac and other GMPs increasing accuracy and precision with less data manipulation.
- New project wizard simplifies the process for creating a new project.
- Enhanced Pit Optimization Engines reduce the need for temporary files resulting in better performance, and increase precision in floating calculation and block values.

GEOVIA PCBC™

- Improved Sublevel Caving as the Cellular Automation (CA3D) Advanced Flow tool now supports ring sequencing and blasting by using a scenario.
- Improved ease of use as display options for PCBC and PCSLC are now in a new Display task pane.
- A new Draw Order Tool has been added to PCBC, which generates draw orders for cave management.
- New Playback upgrade for PCBC functionality has been improved with a more intuitive user interface for improved visualization.
- Scheduler Restart option in Template Mixing provides faster results by adding the option to deplete the past extraction first and then restart a new run for the rest of the life of mine, maintaining the integrity of the overall result.
- Improvement in the sequencing tool for undermining with multiple sectors on a single level improves management of complex sequencing scenarios and supports manual control of undermining constraints.

GEOVIA HUB™

- Extended OS/platform support for Hub Server: The Hub Server is now available on Windows Server 2012 R2 and with Microsoft SQL Server 2014.
- Extended OS/platform support for Hub Client: The Hub client is now supported on Windows 10.
- SQL Server Reporting Services templates have been added to offer simple deployment of reporting against Hub Store content.

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