



MAINTENANCE AND SUPPORT

Software updates 2017



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GEOVIA SURPAC[™]

NEW FEATURES • IMPROVED CAPABILITIES

BENEFIT

POINT CLOUD SUPPORT

Import of LAS, ASC and XYZ files for display in graphics	Dramatic performance improvements over existing visualization methods. Remove need for external application to manage point clouds
2D/3D meshing of point cloud data	Volume calculation from point clouds directly within Surpac removing the need for external applications
Point cloud clean	Noise and error reduction to improve data quality
Deviation analysis between triangulation and point cloud data	Visualization of deviation allowing fast identification of changes
Texture mapping OBJ triangulation plugin	Support for third party photogrammetry and scanned data, allowing users accurate mapping away from remote and high risk areas
Creation of a point cloud from a solid or surface trisolation	Compatibility with external point clouds tools for further processing of data outside Surpac
File based function to clean a point cloud and remove outliers	File based functions allow bulk processing of point cloud files
Edit point cloud function to selectively export a point cloud in the active layer to an .asc or .xyz file format	Interoperability with other applications as subsets of large point clouds can be extracted for higher performance in downstream analysis
Redisplay point cloud layers in graphics using draw strings or markers after running the clear screen function	Graphics performance improvement
Triangulate a selection of a point cloud at a user defined resolution	Faster survey volumes in targeted areas

SOLIDS MODELING

Geometry object designer

Mesh tools module moved to surfaces and solids	More users can access mesh tools at no charge if they already have solids modeling module
Solid centroid function to create a centroid for a closed solid trisolation	Amalgamate data from a solid object to a single point for reporting or calculations across multiple solids
Slice solid using plane group function to generate solids from a group of planes	Create individual solids for each plane from an existing larger solid, allowing easy splitting for benches or progress reporting
Supports the read and write functionality of SDM format data files—file format designed to contain the content of .STR, .DTM, and .SSI file	Greater interoperability with other applications. Increased data integrity by allowing data to be more portable
Improved block model image to a DTM file function	Improved performance and reliability
CAD TOOLS	
Non-uniform rational B-spline (NURBS) curve designer function	Allow the user more efficient curve design

Interactively create curves and solids by drag and drop with subsequent editing

Segment centroid creation	Calculate the centroid and average of numeric description fields, allowing the amalgamation of information from a line to be condensed to a single point for reporting or calculation purposes
New explode functions to explode a segment, string, and layer into single point or two points segments	Easy editing of individual line segments
MISCELLANEOUS	
Create a new block model union the CDV file function	Usability improvement to create a model space

Create a new block model using the CSV file function	appropriate to the CSV data contents
Save blocks as constraint option	New mechanism for constraint creation allowing you to save selected blocks of a block model as a constraint (.con) file
Multi domain analysis function to generate a box and whisker plot	Quick and easy way to compare data from different domains
Point/Triangle/Block select tool to inspect and edit the block attributes of a block model	Quick and effective way to select multiple blocks and average numerical attributes

GEOVIA GEMS[™]

NEW FEATURES • IMPROVED CAPABILITIES	BENEFIT
DRILLHOLE PLANNING	
Move collar positions onto a surface	Reduced need to manually edit survey recor
Create multiple records downhole based on other existing holes	Improved flexibility when designing new holes
Edit designed drillholes with multiple survey records	Greater control over drillhole surveys
Clip multiple deviated drillholes to a base elevation or object	Permit holes to target existing defined geometry
Graphically edit drillholes by moving its collar	Improved visual feedback when completing complex drillhole design

MISCELLANEOUS

DXF/DWG AutoCAD [®] support	Greater interoperability
Installation of the correct block model convertor depending on the x86 and x64 platforms used	Performance improvement
Support the .LICZ license file along with .XML format	Broader file format support
GEOVIA License Manager supports .LICZ file along with .UDT and .TOK files	Broader file format support
MSXML 6.0 updates for pack and go	Compliant with Windows 7 onwards
Drillhole and traverse type workspace now permit cut and copy functions	Greater usability
Interpolation profiles can now target up to 100 rock codes	Improved flexibility during resource estimation
Managing and mapping attributes improvements	Greater flexibility when managing and mapping attributes
Drillhole intersection improvements with design objects	Greater accuracy when updating workspaces

GEOVIA MINESCHED[™]

NEW FEATURES • IMPROVED CAPABILITIES BENEFIT

UNDERGROUND USER EXPERIENCE

Multiple underground files import	Improved operational flexibility. Greater control over design file integration
See when changes have been made to the source files and use a Refresh tool to instantly update MineSched	Faster update cycle—mine design updates are immediately incorporated into the next schedule
Modify the direction of underground heading and export the files with the changes to design packages	Consistency of information—synchronize MineSched and design information and ensure both reflect actual mine build
Allow all stope volumes and grades to be depleted based on any headings that intersect them when the evaluate locations function is run	Usability improvement by removing the need to first cut holes in each stope to ensure that the associated tonnes and grade are not counted twice
MISCELLANEOUS	
MISCELLANEOUS Haul points—a pit and fill point can be defined on each haulage route to force trucks to travel through to specific points before deviating to the destination	Better control by ensuring the haulage schedules are more practical and realistic
Haul points—a pit and fill point can be defined on each haulage route to force trucks to travel through to specific	

Use the period_work_days parameter to quantify the number of days each resource spent working for each period

Use polygon ranges in the polygon and bench polygon mining methods for fill locations

Improved accuracy and control of dump scheduling

Better tracking and reporting of operations data

GEOVIA MINEX[™]

NEW FEATURES • IMPROVED CAPABILITIES	BENEFIT
Updated pit optimizer—seam defaults and sale value, cost and area limits, and slope features	Improved accuracy of results through the use of individual seam default definitions. Greater control for defining pit slopes leads to increasing resource recovery within the pit optimizer to design stages
Faults upper limit update—grid compute now supports up to 1000 faults	Geological model accuracy improvements to address the need to model at an increasing level of detail
Improve granularity and editing for reserves compaction factor	More realistic results can be achieved saving both on design time and dump space
Improved seam grid statistics reporting	Better reporting
Added period selection for dump scheduling truck cycle time	Save design time when calculating truck cycle times by selecting the relevant time period and focusing on the area of importance
Enhanced grid geostatisics with kriging scan distance	Improved cross validation for grid calculations
4-digit year format report display	Improved usability for scheduled detailed and equipment sequence reports
General Improvements for open pit, seam modeling, dump scheduling, borehole, underground, coal washability, drill and blast, and graphics display	Improved stability

GEOVIA WHITTLE[™]

NEW FEATURES • IMPROVED CAPABILITIES	BENEFIT
New Pseudoflow algorithm to run the pit optimization process—for large and complex scenarios, it can create optimal pit shells in a fraction of the time the LG process takes	More robust planning process by running a large number of "what if" scenarios when going through a feasibility study, or a mine re-forecast
Capex optimization for the simultaneous optimization process—powerful tool to explore potential improvements to the NPV through simultaneously increasing the mining or processing limit	Improved mining engineers productivity when quantifying future capital expenditure decisions resulting in potentially improved NPV
General improvements	Improved stability

GEOVIA INSITE[™]

NEW FEATURES • IMPROVED CAPABILITIES	BENEFIT
SQL Server 2016 and Windows Server 2016 support	Improved software support
Cube reports on mobile devices	Mobile device support
Standardized modern controls	Improved usability
Smart filtering in grids	Advanced row filtering
Activity data rejects	Improved usability
Improved application performance and reduction in client side processing	Faster response time
Visual enhancements such as new design, color theme	Improved usability
Dashboard visualization	Improved usability
Additional policy permissions	Improved security robustness
Inspect and correct updated—edit data within the inspect and correct page, including pick lists, date pickers, and business validation	Improved usability
End of month reconciliation enhancement	Improved performance in Material Balance update
Responsive user interface design	Mobile device support

GEOVIA PCBC[™]

NEW FEATURES • IMPROVED CAPABILITIES	BENEFIT
New undercut tool—the tool models each undercut rings, and depletes the tonnes and grade following a specified sequence. Once the undercut has been sequenced, it can be used to sequence the draw points and in production scheduler	Sequencing of undercut rings using operational constraints
Footprint finder for sub level caving mine added to PCSLC and footprint finder license	Quick evaluation of sub level caving footprints directly from the block model. Does not require detailed tunnel and ring design
Task page complete reorganization	Better user experience
Layout creation enhancement	Generate Excel map automatically
Ring solid clipping enhancement	Automated ring solid clipping
Ring file enhancement	Grade names checks
CA3D PCSLC 64-bit support	Support sub level cave with advanced flow model
CA3D new task page	Improved user experience with new display tools

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Americas Dassault Systèmes 175 Wyman Street Waltham, Massachusetts 02451-1223 USA Europe/Middle East/Africa Dassault Systèmes 10, rue Marcel Dassault CS 40501 78946 Vélizy-Villacoublay Cedex France Asia-Pacific Dassault Systèmes K.K. ThinkPark Tower 2-1-1 Osaki, Shinagawa-ku, Tokyo 141-6020 Japan