

WHAT'S NEW IN GEOVIA MINESCHED™ 2022

THE WORLD'S MOST INNOVATIVE SCHEDULING SOFTWARE

GEOVIA MineSched 2022 release presents a complete reimagined workflow for short-term planning for surface mines, improved Gantt chart capabilities and reduced time to prepare a schedule.

REDUCED TIME TO PREPARE A SCHEDULE

MineSched 2022 users gain productivity with up to 67% reduction in time when running the Prepare Model and Export Graphical Results stages.

SHORT-TERM PLANNING

Significant workflow improvements in the area of short-term planning for surface mines. Allowing a more effective bench and blast scheduling to occur.

Blast Locations

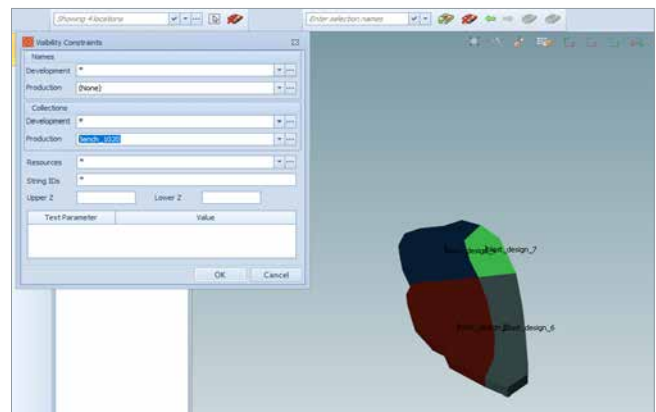
Each blast polygon or solid can be set up as an independent Mining Location. This will allow for all of the Date/event rules to be available for each blast and the ability to establish robust spatial precedence rules between benches. When imported, all blasts will be visible on the 3D Canvas.

Blast Collections

Each blast can be grouped into Collections to aid in setting up rules for material movement and haulage. When in the Locations or Mining Production tabs, double clicking on the Collection will transition to the 3D Canvas.

Visibility Constraints

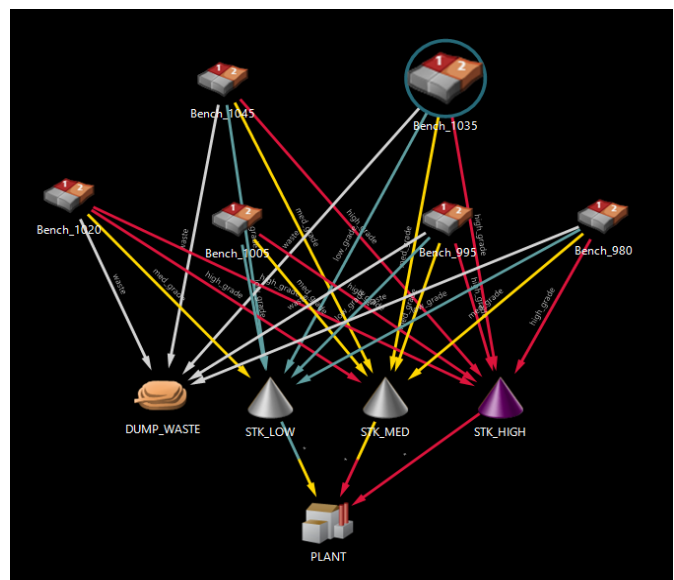
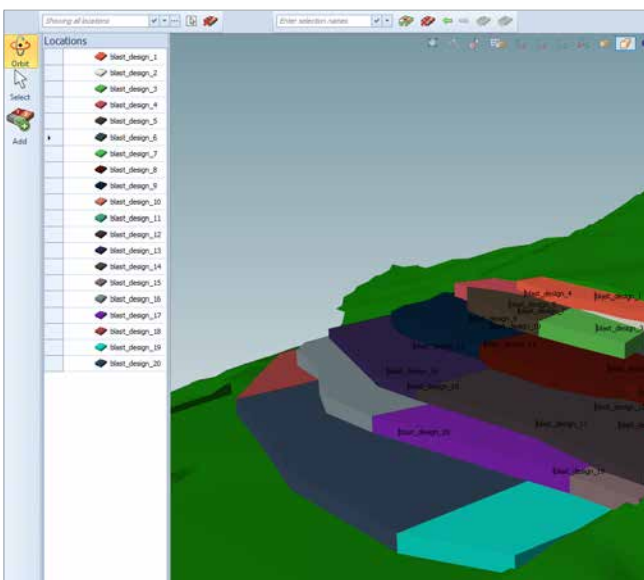
The Visibility Constraint form now retains the latest selection, allowing users to quickly switch between Collections without the added requirement of re-starting the form each time it is opened.



Production Priorities


Rather than just establishing Priority rules for the mining activity, this feature has been expanded to include all production-related activities. This is a significant improvement for Drilling constrained operations to ensure that the most important blasts are drilled first.

Location Name	Priority
1 Blast_design_1	
2 Blast_design_2	
3 Blast_design_3	
4 Blast_design_4	
5 Blast_design_5	
6 Blast_design_6	
7 Blast_design_7	
8 Blast_design_8	
9 Blast_design_9	
10 Blast_design_10	
11 Blast_design_11	
12 Blast_design_12	
13 Blast_design_13	
14 Blast_design_14	
15 Blast_design_15	
16 Blast_design_16	



Limit the Maximum Number of Resources That Can Work at Any Location

When a fleet of Resources is available to work on all Locations, it is important that rules are set to stop all the Resources working on the highest priority Locations. In MineSched 2022, it is possible to limit the number of Resources that can perform ancillary activities at each location. If more than one Resource can work at a Location, a proximity de-rating can be defined to account for any decrease in productivity.



Name Active

Model

Drilling
Charging
Mining

Active

Work

Quantity

Value

Unit

Location Resource Limit

Use a workflow with maximum resources in a location

Maximum number of resources Proximity derating

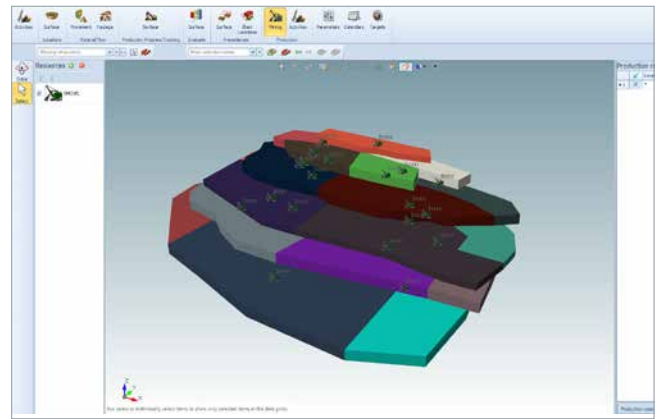
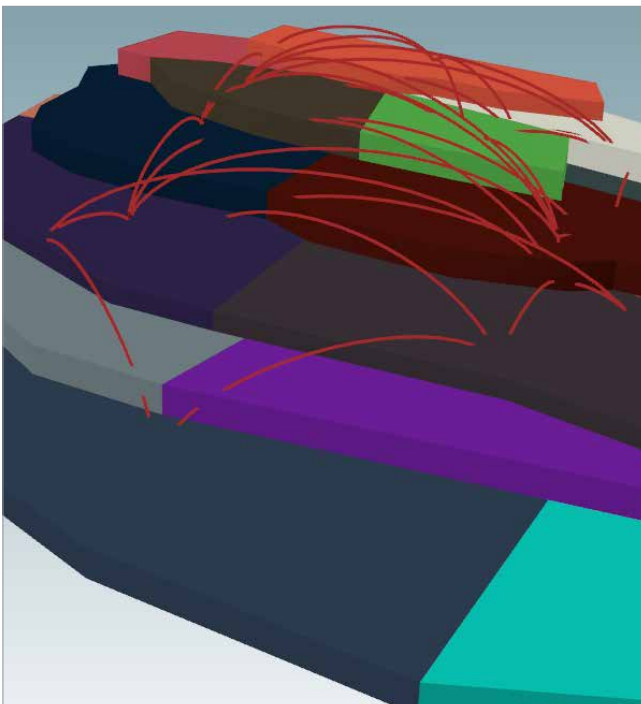
Delays

Before activity days

After activity days

Automatic Precedence Rule Generation

Users save hours and ensure work does not start on a Blast before it is possible to do so. Establishing the spatial precedence rule between blasts on different benches is a time-consuming task, and it is a critical failure point in any Schedule. The Auto-Precedence Generator tool has been added to the Precedences Tab to establish all the critical spatial precedence rules required for a practical schedule. The blast footprints are used to determine any spatial precedence rules in the bench below.



3D View for Defining Production Rates

Users find it easier to allocate Mining Resources to the appropriate Locations by establishing the mining production rates while viewing all the Blast Locations on the 3D Canvas.

Improved Gantt Chart Reporting Tools

Gantt charts are essential validation tools following the successful completion of a schedule. MineSched 2022 improves the Gantt Chart reporting by grouping based on Resource used; colouring schemes to differentiate each activity; and adding labels for Gantt Chart bars.

Customise Gantt Chart

Grouping

Level 1

Level 2

Level 3 Show on one line

Timescales

Year

Month

Week

Day

Period

Labels

Drilling

Charging

Mining

Colors

Mining

Charging

Drilling

Name	Start	End	Duration
January 2013			
31/12/2012 7/01/2013			
T W T F S S M T W			
Period 1			
Drill_Rig_3	1/01/2...	23/06/...	173
blast_design_1	1/01/2...	1/01/2...	0d
Drilling	1/01/2013	1/01/2013	0c
blast_design_2	1/01/2...	3/01/2...	1d
Drilling	1/01/2013	3/01/2013	1c
blast_design_3	3/01/2...	4/01/2...	1d
Drilling	3/01/2013	4/01/2013	1c
blast_design_4	4/01/2...	6/01/2...	1d
Drilling	4/01/2013	6/01/2013	1c
blast_design_5	6/01/2...	8/01/2...	1d
Drilling	6/01/2013	8/01/2013	1c
blast_design_6	8/01/2...	11/01/...	3
Drilling	8/01/2013	11/01/2013	3c
blast_design_7	11/01/...	13/01/...	1d
Drilling	11/01/2013	13/01/2013	1c
blast_design_9	13/01/...	28/01/...	15
Drilling	13/01/2013	28/01/2013	15c

EXPORT GRAPHICAL RESULTS

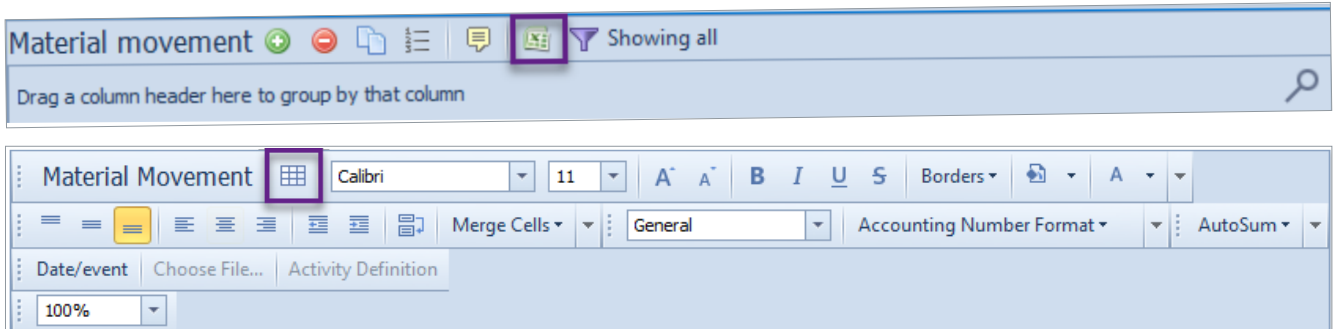
SDM Files Enriched with Attributes

Following the successful completion of a schedule, it is important to communicate the results visually. The Graphical Results tab provides a range of options for users to export the results in various formats and view them in the desired General Mine Planning solution.

When the Graphical Results are exported in SDM format, a range of key schedule details are recorded for each Location as Attributes. These attributes can then be viewed and plotted in GEOVIA Surpac.

SPREADSHEET VIEW

GEOVIA MineSched 2022 includes several improvements to boost the Spreadsheet View workflow and improve overall stability.



Many other improvements have been made in MineSched 2022. Please refer to the release notes for further details.

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