

MineRP Planning, Sequencing & Scheduling



MineRP Planner

Toolsets designed for Mine Planning, including Mine Design, Sequencing and Scheduling, including Template Aided Design and optimization tools such as leveling.

MineRP Planner combines best in class functionalities from our current generation CADSMine, Mine2-4D and EPS products into a newly architected product. Scheduled for release in Q4 2015, MineRP Planner will be the premier planning and design solution offered by MineRP.

Major functional elements of MineRP Planner includes:

- Template Aided Design capabilities allowing for the fast generation of mine design alternatives for evaluation, scheduling and final selection
- Long and Short term planning at the level of detail of your choice
- Improved design tools specific to each mining method and orebody type
- Optimized evaluation engine for performing evaluation on the fly for a subset of the design data during active designs
- Evaluation engine optimised to perform bulk evaluation for calculating, tons, content and attribute values (including calculated values) as defined in the evaluation standard
- Resourcing and scheduling tools for mining activities according to the mine design and sequencing, including optimisation and levelling.

EPS

EPS sets the industry standard for mine production scheduling and forecasting. Short for Enhanced Production Scheduler, EPS addresses the shortcomings of traditional project scheduling and spread sheet based solutions by providing a logical and unified approach to mine scheduling.

Integrated with many design tools such as Mine2-4D and EPSViz, users can interactively update schedules, rules, dependencies other features as they toggle between design, schedule and visualisation.

With EPS, you get:

- Gantt chart capability, with associated time-based crosstab or histogram reports.
- Many familiar project management and scheduling tools, yet fully customised for the needs and complex issues of mining operations.
- A modern user interface, making it extremely easy-to-learn and easy-to-use application.

Major EPS features:

Project Setup

- Import data from (or export data to) external spread sheet sources, such as Microsoft Excel
- Create user-defined physical properties such as grade, tonnage, meters, and cost
- Define labour and equipment resources and assign these to specific activities
- Specify resources as either rate, duration, or effort driven
- Import data from (or export data to) external spreadsheet sources, such as Microsoft Excel

Tasks

- Specify Tasks as either rate or duration driven
- Colour-code activities to allow quick and easy differentiation on a user-defined basis
- Set target ranges for all user-defined properties for production planning
- Change the rate of a task over time
- Record actual start and finish dates, and track percentage-complete for activities
- Change the Gantt Chart display to show date bars, cross tab values, or both
- Specify Tasks as either rate or duration driven

Resources

- Define resources as either equipment or labour, and assign them to activities
- Build a Resource Based Schedule and change availability and cost over time
- Level resources using the improved levelling algorithm, which takes into account resource calendars and provides for multi-resource utilization on a single task
- View resources and tasks assigned to them on the assignment bar chart

Operation

- Edit the bar chart period values in-line in a similar manner to a spreadsheet
- Capture notes on project, tasks, and resources, and add hyperlinks in the notes fields
- Indicators (icons in the information column) indicate the status of Tasks and Resources
- Create filters to build customized views in the Gantt Chart area and to use in Cross tab reporting
- Filter and sort tasks on any field or combination of fields
- Automatically generate Task filters based on unique field values
- Link tasks (create dependencies) and automatically calculate the schedule from these dependencies.
- Colour these dependencies based on dependency groups
- Create histograms in the Cross tab for graphical representation of data
- Build basic financial plans through revenue and cost fields
- Track revenue and costs over time

Calendars

- Maintain separate scheduling and reporting calendars, with the ability to report data over any given time period
- Schedule holidays and shut-down periods, and display these in the Gantt Chart area
- Assign calendars to activities and resources

Dynamic 3D Visualization—EPSViz

- Link the EPS schedule with 3D graphical data to provide dynamic animations of the schedule
- Interactively select 3D activities
- Distribute visualizations and schedules to non-licensed users of the software using the free
- Viewer versions available for download from the web

EPSViz

EPS Viz provides the ability to link an EPS Gantt schedule with 3D graphical design data to provide dynamic and interactive animations of the schedule, and a whole lot more!

With EPS Viz, you also get:

Instant Visual Feedback

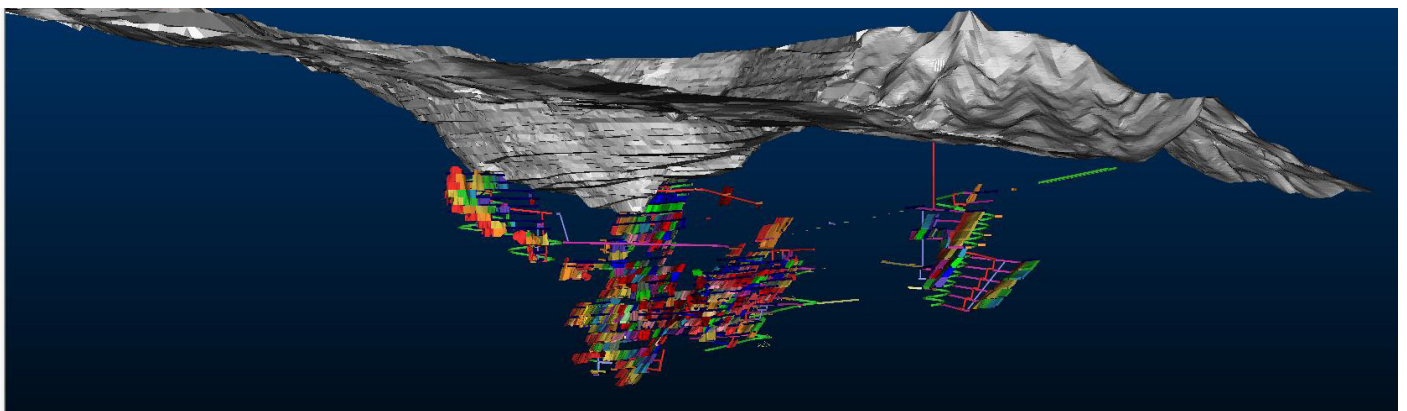
- Instantly see designs in 3D while scheduling • Changes created in EPS are visually displayed in EPS Viz
- Interactively select tasks in EPS, and EPS Viz will synchronise and display your selection visually - and vice-versa!

Improved Data Filtering

- Filters in EPS are visually reproduced in EPS Viz
- Considerable Time Savings
- Visually link designs by only using EPS and EPS Viz
- Reduce the need to re-synchronise the EPS schedule back to Mine2-4D in order to see the schedule animation

Improved Schedule Time Reporting

- See the designs happening at different time periods
- EPS timescales update the EPS Viz animation instantly
- Reduced Data Requirements
- No need for Mine2-4D project files – you only need the EPS and wireframe files



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