Deswik.CAD has been designed by mining engineers for mining engineers. Effectively a spatial database, Deswik.CAD combines the visual power of a modern CAD engine with the efficient data management of a fully featured database, giving you the ability to display, analyze and report your data however you need to.

Deliberately designed to provide generic engineering tools with flexible applications, Deswik.CAD is used and sought after across all mining sectors; underground and open pit mines, both coal and metal, throughout the world.

**Fully Featured CAD Engine**

- Modern Graphics engine designed to handle large mining datasets with excellent graphics performance.
- Generate, slice and Boolean without errors. Arguably the best solids and polygon Boolean tools on the market.
- Support for all standard CAD objects as well as mining specific objects including:
  - Irregular stopes and tunnels
  - Drill holes
  - Gridded seam and block models.
- Superior graphic performance taking advantage of modern graphics card technologies.
- Generate solids / polygons using a robust Boolean engine. Where other mining technologies fail, our solids will be valid.
- Import invalid solids from other mining systems and repair them automatically.

**Integrated Data Management**

- Superior attribute and metadata handling, bringing GIS-style capabilities to 3D mining data.
- Brings advanced spreadsheet style calculations into the design environment, offering superior analysis and insights:
  - 3D spatial lookup formulae
- Interrogate against solids for volume, area and intersections.
- Incorporate a broad variety of data sources:
  - Global constants and parameter tables
  - Curve and value surface interpolation
  - Interactive and rules-based filtering from attribute values.

**Comprehensive Mining Design Tools**

- Advanced design and editing tools within a simple, modern, and intuitive interface.
- Universal applications handle all mining sectors, open cut or underground, coal or metals.
- Rules-based mine design engine for designs, allowing for scenario and what-if analysis.
- Generate solids and surfaces using a multitude of methods:
  - Projection – strip or pit (open cut reserving)
  - X-Section along polyline (tunnels)
  - Manual or batch linking (stopes)
  - Tessellation (LIDAR data processing or DTM creation).

**Auditability and Consistency**

- Information manipulation using a powerful formula builder, instead of scripting.
- Add structure to the planning process using graphical process maps tied into the entire Deswik.CAD toolset.
- Wizard and rules-based tools provides data manipulation transparency.
- Customizable process map macro builder:
  - Repeatable design and data transformations
  - Standardized planning process mapped to internal processes
  - Remove confusion for unfamiliar users.
**Powerful Reporting**

- Rapid, intuitive plotting using the WYSIWYG principle.
- Use custom filters and legend overlays for superior graphical reporting.
- Flexible data queries generated on demand:
  - Volumes, areas, attributes and properties
  - Data histograms.
- Familiar plotting functionality mirroring most other commercial CAD systems:
  - Unlimited, independent viewports for each plot
  - Title block text with intelligent attributes including date and user
  - Spreadsheet-style table editing; with tables easily placed into 3D space or on plots.

**Inclusive Format**

- Based on an XML format, Deswik.CAD easily integrates with most mining and CAD packages including AutoCAD, Vulcan, Minex, Minescape, Minesight, Surpac, XPAC, etc.
- Plugin and scripting interfaces allow for customization and data manipulation.
- Integrated scripting development environment (IDE):
  - Plugins can be developed in VB.NET or C# and easily integrated into the application
  - Powerful object model that allows full access to all properties and methods
  - In-built development environment with full access to the entire .NET framework.
From interactive Gantt charts to PERT network diagrams, Deswik.Sched is tailored for the needs of mine planners. Encompassing both rate and duration based scheduling, it easily handles the massive data sets that modern detailed planning requires; integrating production, ancillary and project activities with ease. Built around a powerful resource leveling engine, you’ll understand your resourcing better than ever, setting priorities, constraints and objectives designed to reflect the real world requirements of actual mining activities.

Unrestricted by timescales, long-term and short-term planning horizons sit seamlessly together in a single schedule. By accessing the comprehensive suite of flexible reporting options, you’ll generate more accurate output data in more meaningful ways, including detailed Critical and Point to Point path analysis.

Intuitive and flexible, Deswik.Sched can handle the planning needs of any mining sector; underground or open pit, coal or metal.

**Comprehensive Scheduling Functionality**

- Familiar Gantt chart interface with inbuilt mining functionality designed for massive data sets.
- Integrates production, ancillary and project activities with ease, using rate or duration-based scheduling.
- Universal application – model open pit and underground mines in the same schedule.
- Variety of configurable scheduler layouts, including:
  - Task and Resource Gantts
  - PERT network diagram
  - Linked reporting and 3D solid animation viewers.
- Generate complex scheduling data through powerful spreadsheet-style formula tools, referencing data from a variety of sources, including lookup tables, range lookups, curves and global constants.
- Innovative task and dependency options including:
  - Hammock tasks
  - Percentage overlap dependencies.

**Time Management**

- Detailed work calendars for scheduling and reporting from a shift basis through to a 100yr+ Life Of Mine.
- Flexible combination of manual scheduling tools for short term and automated long term scheduling.
- Scheduled task duration is calculated in seconds, allowing for infinitely customizable period reporting.
- Construct detailed time usage models using:
  - Detailed rules based resource calendars
  - Grid based time usage data
  - Comprehensive time based reporting fields.
- Integrate long, medium and short-term plans in one schedule, set specified planning horizons.

**Flexible Resourcing**

- Responsive resource assignment; pools assign resources based on task priorities and resource availabilities.
- Build detailed and specific production rates with easy formula builders.
- Resources can have a specific rate or group rates that will be applied depending on the task are assigned to account for variations in:
  - Design and environmental factors
  - Geological and geotechnical factors
  - Other factors such as efficiency and mining priorities.
- Apply time variant fields to reduce production rates over specific periods.
- Manual or rules-based resource assignment for individual or pooled resources.
- Resource specific priorities and proximity de-rating for gear working close together.
- Incorporate resource specific maintenance requirements including:
  - Maintenance events based on equipment hours
  - Retire and replace equipment based on a defined lifespan.
**Optimized Resource Utilization**

- Powerful resource leveling engine with superior features including multi-pass leveling and input path scheduling.
- Mirror real world objectives with dependencies, priorities, targets, constraints and resource limitations.
- Applies a proprietary algorithm across the scheduled tasks in order to prevent over-allocation of resources by delaying lower priority tasks that cannot be resourced.
- Tiered priority structure incorporating scheduling priorities, resource priorities and resource input path.
- Sophisticated resource leveling functions including:
  - Fixed or preferential task grouping
  - Multilevel targeting and quantity constraints
  - Group constraints and blocking tasks
  - Task selection based on deadheading time for significant resource relocations.
- Multi pass Resource leveling allows complex process modelling with specified rules for each leveling pass.
- Interactive ‘stepwise’ troubleshooting of resource leveling process.

**Integrated Reporting**

- User-defined pivot-style reports can be quickly customized to drill into the details of a schedule.
- Unlimited options for pivot based reporting layout includes:
  - Task and resource filtering
  - Report based formulas
  - Incorporated graphing options
- Live reports automatically recalculate when the Gantt time period is adjusted.

**Schedule Integration**

- Record multiple schedule baselines to show schedule changes over time. Automated tools to keep schedules up-to-date.
- Comprehensive suite of schedule analysis tools including:
  - Critical path analysis between selected tasks.
  - Dependency and conflict filtering.
- Operates stand-alone or integrated with Deswik.CAD and Deswik.IS.
- Use the Deswik.SViz or Deswik.vSched platforms for quick 3D visualization of existing Deswik.CAD designs.
- Copy and paste reports and data directly into Microsoft Excel.
- Easy integration with a number of other scheduling packages.
- Extensive sub-projecting capabilities for multiple schedule inputs.
- Expand functionality with other Deswik modules including:
  - Deswik.IS
  - Deswik.Blend
Deswik.IS joins the power of Deswik.CAD and Deswik.Sched, dynamically linking your mine designs and schedules, enabling you to spend more time analyzing and planning scenarios rather than manipulating data. Gantt chart schedules can be modified and updated directly from the graphical environment, setting dependencies and specific resource input paths. Schedule-driven graphical animations give instant feedback on your planning changes, facilitating rapid schedule development.

Using process-driven reserving routines to generate schedule tasks from your mine design data, Deswik.IS automatically generates ancillary tasks such as drilling and blasting, adding the detail you need, while a set of flexible updating tools keeps both your graphics and schedule up to date. Multiple project schedules at different planning horizons can be merged and managed giving even greater flexibility to your mine planning structure.

**Seamlessly Merges Design and Scheduling**

- Direct integration of the Deswik.CAD 3D design environment with the Gantt chart-based Deswik.Sched.
- Instant feedback with animated schedule visualization and dynamic updating between design and schedule.
- Take any type of design entity in the Deswik.CAD graphical platform and transform it into a task solid with a directly linked schedule task created inside Deswik.Sched; update, re-create, delete and manage task solids with any changes dynamically reflected in their associated schedule tasks.
- Creates a direct link in real time – don’t waste time exporting data or settings files that have to be uploaded and managed between different modules.
- Manage any combination of open cut and underground, coal and metaliferrous mines from a single interface using universal processes.
- Ability to change the linked Deswik.CAD and Deswik.Sched files as needed; multiple schedule scenario files can all be matched against a single set of task solids.
- Record schedule changes as customizable animations to be shared across all stakeholders, keeping everyone up to date.

**Process Driven**

- Comprehensive toolbox automates the conversion of design entities into schedule tasks with linked 3D solids.
- Define complex mining processes through derived tasks such as drill and blast or dragline re-handle passes.
- Wizard-based or manual project setup applies intuitive, process-driven routines to generate schedulable tasks from mine design data:
  - Define metadata to carry across the interactive link between the design and schedule.
  - Set rules to generate additional data during task solid creation
  - Run interrogation against geological models during or after the task solid creation process.
- Develop derived tasks to represent a task that is involved in the cycle of extracting the main mining block; drilling and blasting could both be derived tasks for a mining extraction task:
  - Tasks can be scheduled and resourced separately to their parent task
  - Representative solids can be created for inclusion in animations.
- Use linked attribute data to build a comprehensive set of activity type rules that define how a design entity is transformed into a task solid with linked schedule task:
  - Bench blocks
  - Tunnels
  - Stopes
  - Reserve solids
  - Outlines.
- Incorporate solids Boolean processes during task solid creation to cut solids against each other and remove overlapping volumes; that is: remove development drives from within stope solids.

**Inclusive Design**

- Create bench blocks or generate solids from reserve solids, tunnel centrelines and stope sections.
- Specialized tools produce pit shell solids, bench block polygons, ore drive centrelines and assign attributes.
- Take a series of pit or dump shell surfaces and cut them against a starting topography, and each other, to generate a series of closed solids.
- Cut pit stage solids against grids to generate polygons representing the bench block shapes to be mined on each bench of a pit.
  - Automatically merges small polygons created at the edge of a pit shell with larger adjacent blocks, to create more practical mining shapes.
Create polygons and solids to represent an ore drive, using centerlines and polygons defining the ore limit outline.

Automatically or manually assign grouping or graphic attributes to your design entities before, during, or after task creation with a number of attribute assignment tools.

Sequence Visualization

- Innovative graphical interface with a flexible, rules-based approach delivers repeatable and auditable creation of complex mining sequences.
- Graphically set resource paths for greater control of equipment sequencing.
- Graphical dependency tool provides visual representation of every single task dependency in the linked schedule.
- Intuitive manual linking between design graphics based on polygon, centroid or solid selection.
- Build comprehensive sets of automatic dependency rules that can be re-run for new or updated designs as required:
  - Link directly on task metadata (attributes)
  - Spatial linking based on solid centroid
  - Vertical overlap and face angle.
- Dependencies are automatically updated to the schedule in real time as they are created.
- Access animation mode while creating dependencies to immediately visualize changes to the mining sequence.
- Option to assign schedule resources to tasks graphically as part of the dependency creation process.

Powerful Communication Tools

- Superb graphic reporting such as period progress plots, legend coloration and 3D animations.
- Project merge facilitates multi-user planning of different mine areas or timeframes for true integration across a project.
- Set a mining direction for your overall design; define specific dates and then cut the task solids to indicate the face positions.
- Create stage plans that represent snapshots of the surface of your mining and dump faces at different times throughout the life of your mine.
- Cut tunnels and outlines based on the meters scheduled to be mined across a range of periods that you define.
- Manage different files related to the one mine plan by merging multiple base projects into one master project:
  - Build the master schedule from all tasks contained in the original base schedules.
  - Vary master schedule as required and then write changes back to the base projects to keep them updated.
  - Dependent tasks in the master schedule are incorporated into the base schedule as non-editable external tasks.

Update and Integrate

- Effortless transfer of data to bring schedule information such as resourcing onto the design solids.
- Update mine plans against survey data, cutting solids and re-proportioning schedule tasks to the survey date.
- Automates update of existing schedules from surface or underground mine surveys, cutting and re-proportioning tasks and rescheduling from the survey date forward:
  - Cut open pit mining reserves against survey surfaces or polygons, with linked schedule tasks adjusted to the remaining amount.
Developed in direct response to the needs of our customers, Deswik.AdvUGC adds functionality across the Deswik software suite. Continually updated with the latest releases from our development pipeline, this module enables your mine planners to do more effective, more detailed and more value driven planning.

Unlocking advanced design and scheduling features for both long and short term planning, the module includes:

- Underground design toolbox for gridded roadway and longwalls
- Auto Development Designer catering for non-standard design layouts
- Easy reconciliation tools for compliance auditing
- Margin calculator including static NP analysis
- Advanced scheduling functions including backwards pass resource leveling, objective targeting and resource path importing.

Deswik.AdvUGC can be used with either Deswik.CAD or Deswik.Sched or a combination of both.

**Process CMS**
- Import CMS polylines or triangles and stitch them together to create a closed solid.
- Rapidly generate shells around CMS point cloud data.

**As-built Reconciliation**
- Detailed reporting of reconciliation between as-built and design solids from a 3D perspective.
- Calculate overbreak and underbreak incrementally against design centrelines.

**Advanced Resource Leveling**
- Access to features such as backwards pass leveling, multi-field or sink rate targeting and time usage models.
- Short-term manual scheduling via interactive resource paths or import resource paths from other packages.

**Margin Calculator**
- Wizard-based calculation of Net Present Value and incremental, cumulative and maximum cumulative margins from reserve solids.
- Import, export and run multiple scenarios against defined costs and revenues as required.

**Calculate Stereonets**
- Import strike azimuth and dip data to generate geotechnical stereonets directly in the Deswik.CAD design space.
- Supports Schmidtt, Wulff, Rose and observation diagrams.

**Underground Coal Design Toolbox**
- Automates centreline creation for longwall panels and gridded roadways such as mains, gateroads and development panels.
- Generates the metadata required to process design lines into 3D reserve solids via the Deswik.IS.

**Auto Development Designer**
- Uses rule-based processing to modify design lines for irregular and special development.
- Automates standard polyline manipulation tools as well as formula based attribute assignment.

**Process Tunnel As-builts**
- Generate as-built solids from any combination of floor, roof or rib line survey pickups.
- Able to generate from a single rib pickup line using a nominated cut height and survey pickup height.
A Deswik.CAD module, Deswik.Agg applies rules-based scenarios for the generation of aggregated reserves. Able to handle solids or grids, the aggregation results reflect what actually happens at a material interface, allowing more accurate modeling of Run of Mine material flows.

With this wizard-based tool, scenarios can examine the effects of aggregation rules based on material types, thicknesses or specified quality restrictions. Moisture basis conversions, loss and dilution assumptions and equipment allocations can all be incorporated into any scenario. Using powerful pivot-style reports and a unique stratigraphic visual comparison, scenarios can be rapidly analyzed and compared against each other for selection of a final case.

Harnessing the power of Deswik.CAD, final aggregated solids or grids can be generated suitable for downstream mine planning processes such as margin ranking, production scheduling and landform modeling.

**Interactive Results**
- Transparent pivot-style reporting interface highlights factors influencing aggregated ROM tonnages between scenarios.
- Graphical side-by-side comparison shows the physical impact of different aggregation constraints.

**Fit for Purpose Outputs**
- Generates final mined working section grids or solids with all calculated aggregation values.
- Auditable outputs are suitable for downstream planning processes such as margin ranking and production or dump scheduling.

**Practical Functionality**
- Inclusive tools work with grids or solids to create mineable working sections at the block or deposit level.
- Auditable, rule-based approach delivers the flexibility to tailor aggregation settings to any deposit.

**Rules-Based Approach**
- Set rules for thickness, material type or quality and apply different loss and dilution factors (e.g. roof, floor or edge).
- Ensure mined horizons satisfy constraints by incorporating pre and post requisite testing.

**Investigate Options**
- Manage and run multiple rule sets simultaneously for rapid scenario generation and comparison.
- Assess effect of equipment selection by defining multiple equipment types with different loss and dilution parameters.
A companion module for Deswik.Sched, Deswik.Blend has been developed to meet the challenges of scheduling material handling and blended production outputs from any mining deposit, metaliferrous or coal. Using an intuitive graphic interface, complex material flows can be comprehensively modelled for easy multi-scenario analysis.

Built around the IBM CPLEX optimizing engine, Deswik.Blend schedules the available material with consideration for stockpile limits, flow constraints, plant capacities and product targets. Outputs are balanced across defined periods against the competing priorities of product quantity targets, product specifications and maximizing the value mix for multi-product scenarios.

Reporting directly into Deswik.Sched, the output flow log maps each material flow - tracking material throughout the entire beneficiation process to mining the block level of granularity. Matching this information into Deswik.LHS can define the additional haulage pressures of complex stockpile reclaim strategies.

**Period-Based Optimization**

- Material flow modeling and targeting that closes the planning gap between ROM production and blended product.
- Develop product strategies for defined constraints using the IBM CPLEX solver engine.

**Model Complex Systems**

- Intuitive graphic interface builds a network of sources, stockpiles, plants and destinations via material pathways.
- Blend materials on either a raw or product basis incorporating unlimited variables.

**Realistic Constraints**

- Simulate metal and coal plants, with flotation, washability and yield curves at discrete cut points.
- Balance quantity and quality/grade targets with flow ratios, stockpile turnover and material transformations.

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**Strategic Options**

- Audit material flows through the entire the network, trace from source block to destination via all stockpiles and plants.
- Allow the blending engine to select the best production sequence for defined saleable product streams.

**Embedded Reporting**

- Complete exposure of all data used during the blending process, reportable via Deswik.Sched.
- Generates a detailed flow log record of each material movement from pit to stockpile to plant.

**Expanded Solution**

- Integrated seamlessly within Deswik.Sched eliminating any manual transfer of data.
- Extend the results to Deswik.LHS for haulage scenario analysis including stockpile reclaim and transport trucking.
Tightly integrating with the Deswik.CAD and Deswik.Sched applications, Deswik.MDM provides a spatial database and process workflow management tool for the entire technical services department. A single point solution for data management and security, Deswik.MDM also supports versioning by increment or date with rollback functionality. Built on a standard Microsoft platform including SQL Server Database, the system allows typical mining data and documents to be organized and categorized; data is tagged using attributes and edited through user-definable, auditable workflows.

**Mining Data Management**
- Management of mining data and associated documents using multiple data stores and workflows.
- Incorporates spatial CAD graphics, geological models, tabular data, schedule tasks and associated documents.

**Data Storage and Referencing**
- Uses attributes and spatial bounds to allow relevant data to be stored and retrieved.
- Extract the data in multiple formats for referencing and editing in third party applications.

**Check in/Check out**
- Extract portions of data in a subject area for editing and then merge back into the entire dataset.
- Data is locked during checkout to ensure a single version is maintained.

**Process Workflows**
- Process workflows can be built into the MDM, defining or enhancing current organizational planning processes.
- Workflows provide formalized, repeatable processes that ensure data validity and auditability.

**Data Security**
- Users are assigned rights to only allow read or write access to specific categories of data.
- Users can be grouped to allow multiple people to work on common tasks as available.

**Task Allocation**
- Specific users can trigger a job which is added to the task list of a group of users.
- Completion of one job can trigger multiple other workflows and notifications to key users.

**Preview Latest Mining Data through the Network**
- Preview tool allows all users to view the latest mining data they have rights to on their local machine.
- Preset views provide ways to rapidly access typical graphical information or reports.
Deswik.FM is a centralized, collaborative and auditable document management system. Operating from an integrated user interface within the Deswik suite, users add or remove files and control file versioning via an intuitive check in/check out mechanism.

Built on an application server that allows documents to be organized in different repositories, with an integrated backup mechanism to revert to older revisions that allows users to modify content with confidence. Integrated access control via specified user groups and permissions improves security, providing active risk management for your data.

The system has been designed to fully integrate into your customer's existing user management infrastructure via an Active Directory interface.

**Complete Version Control System**
- Rapidly make modifications, comment on check-in changes or revert files.
- Check out specific versions or get 'read only' copies of files checked out by another user.

**Group Based Permission Model for Repositories**
- Users are automatically authenticated and added to the repository via Active Directory interface.
- Dynamically update a comprehensive list of permissions for each group or repository.

**Centralized Configuration Management**
- Centralized web-based platform for administrators to configure and monitor system health and settings.
- Manage groups, users, repositories and permissions from a single point.

**Direct Integration with Deswik Suite**
- Intuitive user interface docks directly within Deswik.CAD or Deswik.Sched.
- Familiar tree structure representation of files includes status and history for selected files.

**Multi-Tier System**
- Deswik.FM is set-up as a scalable N-Tier system for optimum security and performance.
- Uses existing IT infrastructure for databases, network storage, web servers and active directory servers.
A streamlined version of the powerful Deswik.CAD graphics design software, Deswik.Draft offers a legitimate low cost Computer Aided Drawing option for sites with dedicated draughtsmen creating plots and plans. Featuring the same familiar, intuitively designed Deswik.CAD interface, it contains all of the plotting, annotation and polyline editing tools you would expect.

With the ability to import Deswik.CAD 3D solids as well as a large variety of other design files, draughtsmen can view and slice reserve solids as needed to convert your mine designs into a working plan ready for the jobsite.

**Fully Featured CAD Engine**
- Modern graphics engine designed to handle large mining datasets with excellent graphics performance.
- Universal applications handle all mining sectors, open cut or underground, coal or metals.

**Ideal for Drafting and Plotting**
- Version of Deswik.CAD containing just the functionality required for drafting and plotting.
- Does not contain 3D solids design tools or the ability to run other Deswik modules.

**Comprehensive Drafting Tools**
- Advanced design and editing tools within a simple, modern, and intuitive interface.
- Support for all standard CAD objects, polyline editing and drawing tools, dimensions and annotations.

**Process Management**
- Add structure to the planning process using a customizable process maps macro builder:
  - Repeatable design and data transformations.
  - Standardized planning process mapped to internal processes.
  - Remove confusion for unfamiliar users.

**Powerful Plotting**
- Rapid, intuitive plotting using the WYSIWYG principle.
- Familiar plotting functionality mirroring most other commercial CAD systems:
  - Unlimited, independent viewports for each plot
  - Title block text with intelligent attributes.
SViz is an embedded 3D visualizer for Deswik.Sched. Using a dockable interface, it provides interactive viewing and animation of mine designs, sitting side-by-side with the schedule tasks. Working from an initial design created through the Deswik suite, SViz can help to streamline the scheduling process with real time visualization of schedule changes.

Full integration with Deswik.Sched lets you apply filters, color blocks by schedule fields and assign resources, to view your schedule data in a more meaningful way. A low cost option designed to free up Deswik.CAD and Deswik.IS licenses, SViz maintains the unique integration of design and scheduling that sets Deswik apart.

Streamlined Functionality

- Works with Deswik.Sched, without the need for Deswik.CAD or Deswik.IS.
- One application and one interface for scheduling and visualization.

Fully Featured Viewer

- Load in Deswik.CAD design files that have been processed through Deswik.IS.
- Simple 3D visualization of tasks without the need to load a CAD design file.

Another Intuitive View of All Your Tasks

- Task selection synchronized between the normal scheduler view and the visualizer – select tasks in the grid or in the 3D view.
- Task solids in the 3D view can be coloured by the task's Gantt bar colour.

Schedule Interaction

- Dependency view that clearly shows successor and predecessor tasks in the 3D view.
- Assign resources by dragging directly onto the 3D task solids.

Imports Settings and Data

- Imports file settings such as legends, layer pre-sets and plane definitions for the Deswik.CAD design file.
- Display design layers through the layer directory and access all the attributes and properties of the solids.

Synchronized

- See your changes to the schedule instantly reflected in the animation in the viewer.
- Apply schedule filters to see them instantly reflected in the viewer.
Deswik.vCAD is a free, standalone application to view Deswik CAD design files. Unrestricted by licensing, it can be installed on any system ensuring that every stakeholder in your mine planning process has access to the latest mine design.

**Included Functionality**

- Run animations published though Deswik.IS or simply load up design files.
- Select, pan, orbit, zoom, and display the animation in 3D.
- Display the properties and attributes of a selected object.
- Display or hide design layers through the normal layer directory.
- Apply previously defined:
  - Color legends.
  - Plane definition views.
  - Layer pre-sets.
- Filter objects on a layer interactively.
Deswik.vSched is a free, standalone application to view Deswik.Sched schedule files. Unrestricted by licensing, it can be installed on any system ensuring that every stakeholder in your mine planning process has access to the latest mine schedule.

**Included Functionality**

- Apply pre-configured layouts or create a new one as required from:
  - Task grid setups
  - Gantt chart views
  - Reports
  - Timescales
  - Grouping.

- View all of the file settings including:
  - Production fields
  - Custom fields
  - Filters
  - Calendars.

- Adjust the view; collapse and expand groups.
- Apply date range filters.
- Print the schedule.