Delivering lean and efficient working practices, CAE Mining’s Studio 3 has been the industry leading resource and reserve modeling system for over 20 years. Whether in consultancy, exploration, resource evaluation, planning or production, Studio 3 possesses multi-parametric modeling capabilities, and the versioning, audit trails and repeatability demanded by JORC, SAMREC, NI 43-101 and Guide 7 reporting codes.

Key Features

- Ability to handle complex data sets including drillhole samples, channel samples, face maps, laser and image processed 3D models
- Superior geostatistical capabilities including dynamic anisotropy and orebody unfolding to deal with post mineralization orebody distortion and conditional simulation tools to quantify risk
- Wireframing and modeling tools that help define the structural geology quickly and accurately
- Geotechnical modeling that provides a detailed understanding of ground stability and rock characteristics
- Sophisticated block modeling with comprehensive sub-celling to accurately represent grade and structure
- Facilities to turn wireframe models into cell and sub-cell models in a single pass enabling grades within orebodies and seams to be modeled in as much detail as the data permits
- Multi-parametric modeling capabilities that model geo-metallurgical and geotechnical parameters in addition to grade
- A Mineable Reserves Optimizer that allows the stoping blocks to be identified to turn a geological resource into a mineable reserve
- Data Source Drivers that enable Studio 3 to integrate seamlessly with other solutions
- Data archiving to manage multiple scenario mine planning in a governance environment.
Design
Studio 3’s Design Window is used to view and manage all aspects of mine design. Featuring over 600 dedicated Design window commands, and a further 300 interactive processes, you can be sure to find the functionality you need for every situation.

Logs and Tables
Display all downhole data as scaled drillhole log sheets. A wide selection of presentation styles are available including text, line graphs, histograms and bars with optional color and pattern fill.

Virtual Reality Visualization
CAE Mining is the first in its field to offer an integrated Virtual Reality interface within its core mine design product. VR provides a fully-immersive world for your geological and mine design data. Create animated simulations, fly-throughs and connect via GPS to real-world equipment for remote mine monitoring.

Visualizing data is a critical aspect of geological modeling; Studio 3’s feature-packed VR window allows you to present simulated schedules, mine designs and operational scenarios clearly and impressively. You can also create and manipulate your point, string and wireframe objects directly from the VR menu system, using one or multiple synchronized 3D views simultaneously.

Multi-User Studio
Data Integrity and Process Integrity are at the heart of appropriate corporate governance. Studio 3 integrates seamlessly with our proprietary MineTrust framework to create Multi-user Studio. Providing robust check-in, check-out and reporting functions directly from the Studio 3 interface. Lean and efficient working practices are encouraged and maintained, even within a mixed technology and user environment.

Plots
Report-ready plotting allows you to view, verify, format and present your downhole data as clear multi-component section plots. Plot drillhole traces and indexed sample data values in plan, section or any three-dimensional view desired.

A complete family of sections can be defined from a single section definition using only one dialog. Enhance your plots with smart plot items, charts and OLE items such as Excel charts.

Automation with Scripting
Studio 3 provides an industry standard interface that allows you to write scripts using JavaScript or VBScript. These scripts are embedded into an HTML document, which can be loaded into the Studio interface to execute commands. Scripting allows you to customize the operation of Studio 3 commands, and access the versatile suite of functions using automation to save time on repetitive functions.