

SOLUTION BRIEF

CENTRALISED BLOCK MODEL MANAGEMENT FOR FASTER, DATA-DRIVEN MINING DECISIONS

Mining teams depend on resource and grade-control block models to guide multi-million-dollar decisions. Despite this, most operations still rely on oversized CSVs or proprietary files across shared drives. The result is version confusion, audit gaps, and hours of manual spreadsheet work before anyone can answer, “Is this the latest model?”

BlockSync is a cloud-native application built on the Seequent Evo platform. It turns those unpredictable file systems into a secure, single source of truth. BlockSync centralises every block model regardless of which geological package created it, tracks every change, and streams live data to Leapfrog Edge, BI dashboards, mine planning suites, and custom apps. By combining rigorous version control with open APIs and role-based security, BlockSync unlocks faster collaboration, auditable reporting, and data-driven mine planning.

What is Seequent Evo?

Seequent Evo is a geoscience data and compute platform that enables integrated workflows and collaboration across Seequent and third-party products. It powers geoscience solutions for data processing, modelling, and insight generation. This drives innovation and enables users to continuously improve their workflows and business with open APIs and data.

Mining projects around the world rely on BlockSync to:



Create a single source of truth for block models



Collaborate in parallel without file lock-outs or rework



Generate live resource, production, and reconciliation reports



Track every edit for a full NI 43-101 / JORC audit trail



Connect any modelling, analytics, or mine-planning tool via open APIs



Scale effortlessly with cloud compute and enterprise-grade security



Successful block models are powered by BlockSync



Create a single source of truth for block models

Break free from messy network drives. BlockSync stores every parent and child model in one secure location, with metadata that tells you instantly who uploaded it, when, and why a new version was created. No more “model_final_FINAL” confusion.



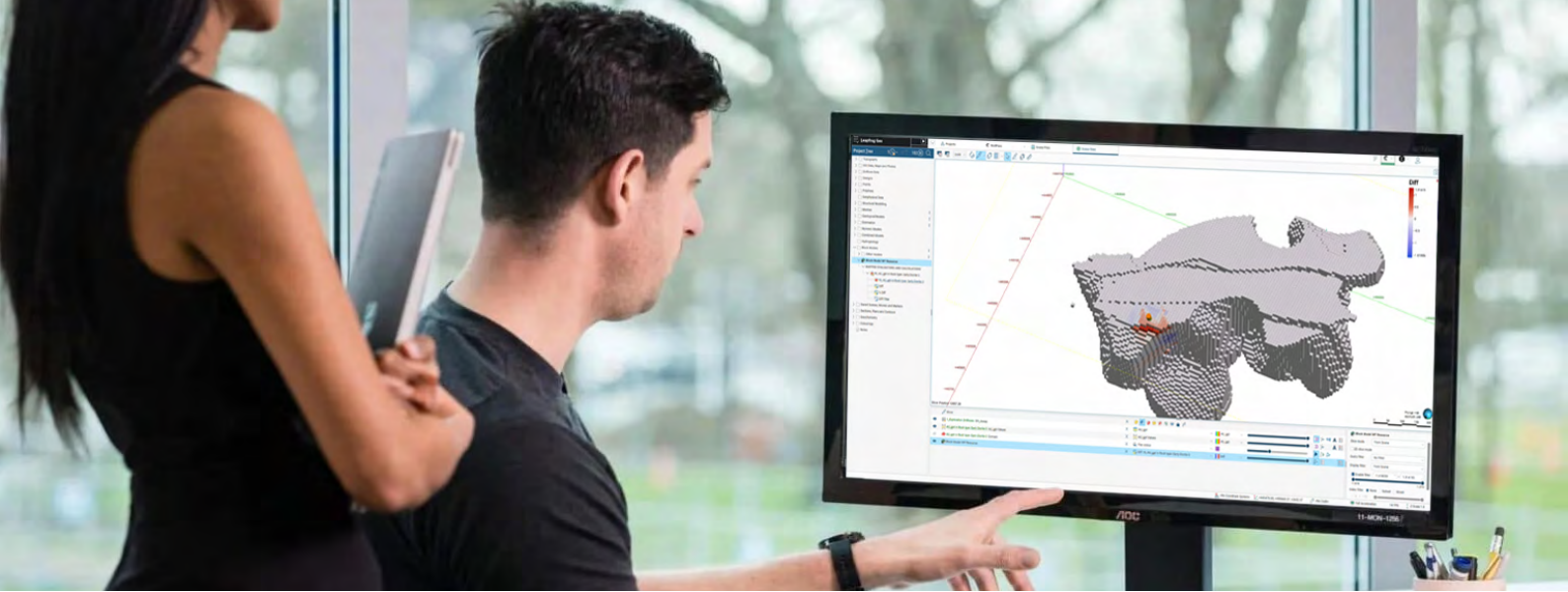
Collaborate in parallel without file lock-outs or rework

Short-term modelling teams can check out just the benches or attributes they need, work offline, then merge changes back with automatic conflict detection. No more waiting in line for file access or merging separate changes into one model.



Generate live resource, production, and reconciliation reports

Query block models on demand in the web UI or via API, stream results to BI dashboards, or export CSV/Parquet files so planners, finance, and regulators see the latest numbers without manual spreadsheet prep.



Track every edit for a full NI 43-101 / JORC audit trail

BlockSync versions every commit, so you can run resource, production, or reconciliation reports on the exact dataset regulators or executives request and keep a complete audit trail that shows who changed what, when, and why.



Connect any modelling, analytics, or mine-planning tool via open APIs

A REST/JSON API lets you push or pull models from Python notebooks, Power BI, Palantir, or in-house apps while the Leapfrog Edge plug-in delivers a seamless round-trip workflow for estimation and post-processing.

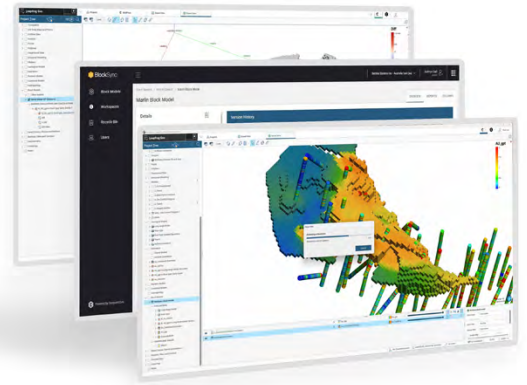


Scale effortlessly with cloud compute and enterprise-grade security

BlockSync scales compute on demand for models that run to hundreds of gigabytes, yet still honours strict data-residency rules with optional dedicated tenancy, encryption at rest, and foundational role-based access controls.

Explore the key features that power BlockSync

BlockSync transforms scattered block-model files into a single, governed source of truth. Its cloud-native toolkit streamlines version control and enables real-time collaboration, supporting faster workflows, tighter audit trails, and more confident, data-driven decisions across the entire mining value chain.



Centralised data management

A single cloud repository so everyone works from the same source

- Store parent models with rich metadata and role-based permissions
- Eliminate duplicate files and network-drive scavenger hunts
- Optional dedicated tenancy and in-country hosting

Granular version control

See exactly who changed what block, when, and why

- Commit, tag, and roll back any version in one click
- Attribute-level differences highlight even minor changes
- Drill down into a detailed audit log for each block model version

Parallel subset workflows

Teams can work simultaneously, eliminating lockouts and rework

- Check out only the benches or zones you need for local updates
- Merge back with automatic conflict detection and visual diffs
- Attribute or subset-only downloads minimise bandwidth

Open API & Evo integrations

Connect any modelling, analytics, or planning tool on Evo

- REST/JSON endpoints for scripted read/write from Python, Power BI, Deswik, Palantir, etc.
- Native Leapfrog Edge plug-in for round-trip estimation and validation
- Developer portal with docs and sample code

Live reporting & analytics

Generate resource, production, and reconciliation reports on demand

- Query models directly in the web UI or via API—no manual file juggling needed
- Stream results to dashboards or download as Parquet/CSV
- Always reference the exact version regulators or executives request

Cloud performance & enterprise security

Process massive models quickly without compromising protection

- Auto-scaling compute handles large parent models in the cloud
- Data encrypted in transit and at rest, with SSO and MFA support
- Automated backups and disaster-recovery options meet IT governance rules

A world of support at your fingertips

Beyond the powerful features of BlockSync, Seequent offers comprehensive support and learning resources to help you get the most out of your investment.

Learning Centre

Maximise the value of Seequent's solutions with a range of flexible learning opportunities through the Seequent Learning Centre. Whether you prefer online learning paths, on-demand videos, or instructor-led courses, there are resources tailored to your needs.

[Explore learning opportunities →](#)

4.9/5

rating for Seequent
e-learning from
16,000+ reviews

Community

Connect with a global network of geoscientists and professionals through the Seequent Community. Whether you're looking for peer support, insights from industry experts, or practical tips to get the most from Seequent's solutions, the Community offers a space for shared learning and collaboration.

[Join the community →](#)

7,400+

customers in
145+ countries

Support

Get the most from your Seequent solutions, anytime, anywhere. Access our knowledge base, connect with technical experts, or explore specific support options for all Seequent products, keeping your projects running smoothly and efficiently.

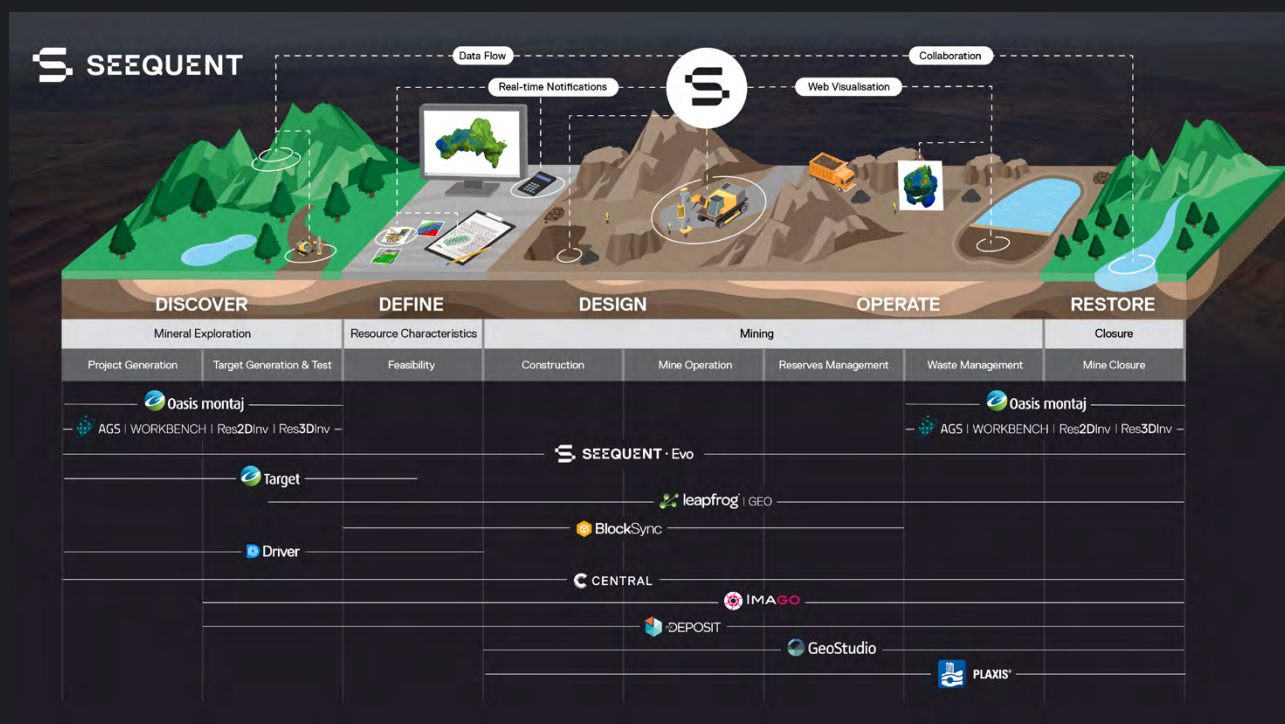
[Get support →](#)

95%

satisfaction with
our front-line help
and support

A block model workflow that keeps mining projects on track

Centralise resource, grade-control, and reconciliation block models in a cloud-native repository that tracks every edit and streams live data to Leapfrog Edge, BI dashboards, and mine-planning suites so geologists, mine engineers, and finance teams stay aligned from first resource statement through daily production and end-of-life reconciliation.



Experience BlockSync through Seequent Evo

Visit seequent.com/evo to schedule a personalised Evo walkthrough and see how BlockSync, Driver, and other native apps can be activated in your organisation.

Understand the underground to build a better world.

Seequent is evolving the way organisations work through better subsurface understanding.

As the world leader in subsurface earth-modelling, analysis and data management and collaboration software, Seequent is at the forefront of building a collective understanding of the Earth.

We hire amazing people who collaborate with our customers to find technology solutions to their challenges that deliver more positive outcomes for a better world.

As The Bentley Subsurface Company, Seequent connects our natural environment with the built world so organisations can manage the impact of their projects at every stage.

Seequent: Understand the underground

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of the world's largest mining
companies use Seequent software

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