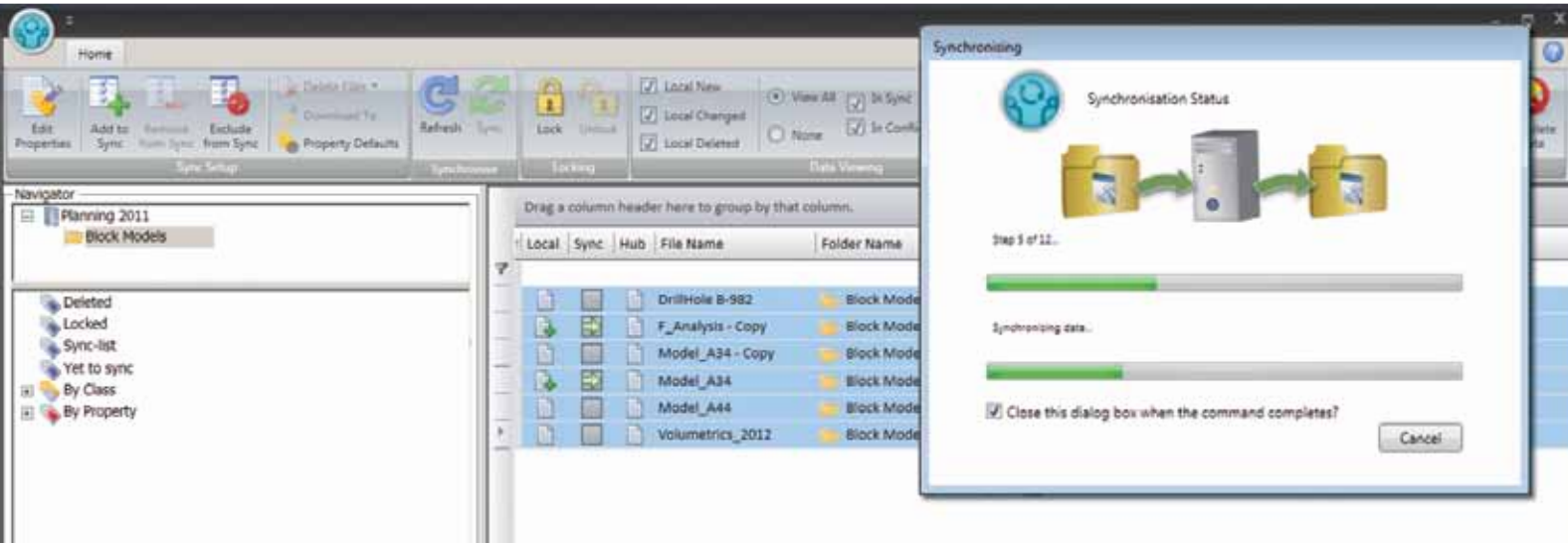


# GEMCOM HUB™

Data Management for Exploration and Production



Gemcom Hub™ provides data management optimised for exploration and production, bringing centralisation and security to stored data, and rapidly delivering information over low-bandwidth and intermittent connections.

## Benefits

- Data centralisation results in more effective information sharing and collaboration between mining professionals, regardless of where they are located in the world.
- Data management optimised specifically for exploration and production data facilitates transfers of large datasets such as resource models, even over intermittent, low bandwidth communication infrastructures.
- Effective data management ensures a single version of the truth and data integrity through versioning, security and rights management.
- Data management is file format independent, giving users control over their critical project information no matter what application was used to generate it.
- System setup and management requires minimal IT knowledge and involvement, significantly reducing training and support requirements for a rapid return on investment.

# Data Management Optimised for Exploration and Production

## Exploration and Production Data and Your Business

The data that drives exploration projects and mine production represents the value of mineral resources and the means to extract them economically and efficiently. It is therefore vital that project data is accurate, available, and current for use during each step of the mining value chain — whether in the field, at the mine, or at corporate offices — for decision making and reporting. That is why companies involved in exploration and production are seeking to better manage what is arguably their most critical asset – their data.

With Gemcom Hub™, businesses have the data management solution they need – a single version of the truth and an effective means to share data. Hub delivers powerful data management capabilities because it is optimised for the exploration and production data produced by geology and planning software. By managing this, along with related information such as imagery, memos, and spreadsheets, Hub ensures users are quickly and securely provided with the data they need, when they need it – even over intermittent, low-bandwidth connectivity common to remote field locations. And despite Hub's technical sophistication, implementation and training requirements are kept to a minimum.

## Data Management Made Easy

Data centralisation is a key objective in many workgroups and organisations because it ensures data is protected, backed up, auditable, and accessible to those who need it, no matter where they work. Data management is critical, since the majority of exploration and production data – whether from geology, engineering, or surveying, or even from Microsoft Word® or Excel® documents – is often scattered, living on individual desktop computers or in arcane folder structures on shared workgroup servers.

With Hub, not only is data centralised, but stricter control over data accessibility is enabled, and robust audit trails are established for



Hub centralises data, ensuring it is secure, and available where and when it is needed.

improved reporting and compliance. In fact, information remains accessible even if a user has only intermittent or low bandwidth Internet connectivity. At the end of the day, users can find comfort in knowing that their data is backed up and secure from loss and corruption.

Many different types of users need data for different reasons, and the way the data is organised for one individual and/or software application may be different to that required by another. Hub provides users with the flexibility to arrange their data in a way that works best for them.

Effective collaboration is facilitated by the fact that project data can be checked in and out of Hub's central database to ensure the right information is accessed and updated, and a single version of the truth maintained. With data versioning and notifications (sent when the project data they are working on has been updated), confidence in the data a user is accessing is increased

and there is never a doubt about whether or not they are using the latest information.

## Work Globally – From One Location

Mining is a global business, with engineers, geologists, and others collaborating with their colleagues



Hub enables your data to travel so you don't have to.

working at multiple, and often remote, locations. When the data they rely on for their work is located thousands of kilometres away, this can be a considerable challenge. With skilled staff in short supply, there are inevitable delays and a loss in productivity when users have to travel to the data they need. Travel can also be taxing on staff when they are away from their families. The need for solutions like Hub that enable effective, global data sharing is therefore more necessary than ever.

Hub ensures data can be easily shared globally, allowing skilled staff to actually spend more of their time assisting the field without having to travel to where the data exists. Using Hub, a surveyor at a mine in Africa can make his updates available to a geologist in Canada, who updates the geological model, whose data is then used by an engineer in Australia to build the schedule, which is updated back at the mine in Africa. With Hub's version-controlled data, changes made by users are synchronised to a central data storage location which is accessible to other validated users no matter where they are. Ultimately, data is located where each user is, whether in the office, on a plane, or at a site.

## The Challenge of Poor Communications Infrastructures Solved

With many sites situated in remote locations, a poor communications infrastructure can make data sharing between locations a difficult and sometimes impossible task due to low bandwidth and intermittent connectivity. This challenge is compounded by the fact that exploration and production data is often too large for the electronic transfer between locations. When block models run to gigabytes in size, for example, even one stoppage in their transmission can require a restart, leading to user frustration, wasted effort, and lost time.

Hub solves the problem of transmitting large data over poor communications infrastructures. When using Hub, sending data is not a challenge no matter how large the size thanks to its ability to detect differences between copies of data, transmit changes, and compress them to turn even slow Internet connections into high-speed

lines. In addition, unlike other data transmission methods, Hub picks up right where it left off whenever connectivity is unexpectedly cut off.

## Get the Right Data When You Need It

At many sites, project data exists on individual desktops, making collaboration difficult between users. In other instances, data management measures involve placing individual files into complex folders that live on shared network drives. In either case, finding information can be a challenge, and guaranteeing it is the latest version can be near impossible.

Finding the information required for daily tasks is simple when using Hub. Intuitive searching capabilities make it easy for users to locate data, saving considerable time and effort. When looking for certain datasets, Hub's cataloguing mechanism allows data to be readily and naturally identified without needing to know specific filenames or locations. And in the case that data is ever deleted or lost, Hub's versioning and support for access rights ensures that users can recover information or return to a previous version in a controlled and auditable manner, maintaining an accurate history and chain of custody. For users,

this means they can store data on their own machines in a way that makes the most sense to them.

## Easy to Use and Learn

Hub has been designed with ease-of-use in mind, resulting in minimal training requirements and effortless system adoption for busy exploration and production staff. Since Hub operates seamlessly with existing user data, users can maintain the familiar use of their productivity tools while benefitting from a faster delivery of up-to-date information and an absence of communications connectivity issues.

## Simple to Set Up and Maintain

Whether you are an IT professional, or an end-user tasked with looking after how data is organised and backed up, you will appreciate Hub's ability to quickly provide you with an effective data management solution. Hub is easy to install and maintain and scales easily from supporting individual users and workgroups through to the enterprise, providing a high impact, low overhead solution. Also of significance is the fact that Hub does not require any change to existing systems that might affect ISO or SOX compliance.



Intuitive and easy to use, Hub delivers immediate benefits to its users.



## Gemcom Hub at a Glance

### Bringing Data Management to Exploration and Production Software

Gemcom Hub brings data centralisation and security to the data generated by software used in exploration and production, including Gemcom Surpac™, Gemcom Minex™, Gemcom Whittle™, and Gemcom MineSched™. It also works with any other geology, engineering, and mine production software, along with widely used industry tools such as Microsoft Word, Excel, and AutoCAD®.

FEATURES	BENEFITS
<b>Optimised for exploration and production data</b>	Enables large files to be transferred quickly even over poor communications infrastructure.
<b>Centralised data</b>	Shared data is stored in a central location, ensuring a single version of the truth, physical security, and access control.
<b>Data security and rights management</b>	Ability to define who can access data with read/write permissions to ensure the right people are using it and to prevent accidental erasure or overwrite.
<b>Data auditability</b>	Text file histories of all versions of a file can be exported.
<b>Version control</b>	Each user can tell what the latest version of the data is and who has it. They also have the ability to roll back to earlier versions – even “deleted” files.
<b>Remote data access</b>	Users can work with the right data anywhere in the world without ever having to travel, maximising the effectiveness of high value staff across multiple projects.
<b>Leverages existing Internet infrastructure</b>	Securely transmits data over existing Internet infrastructure, and makes fast and reliable data transfer possible over low-bandwidth and intermittent connections.
<b>Data synchronisation</b>	Allows users to get the latest changes made to data without having to transfer entire files.
<b>Notifications to file changes</b>	Users know when the data they have been using has been updated by others.
<b>File check-in/check-out</b>	Data can be locked from being edited by other users while it is being worked on.
<b>Intuitive searching</b>	Data can be found without having to know what it is called or where it might be located.
<b>Easy to use</b>	Busy professionals can rest assured that they will be up and running quickly, with minimal or no training.
<b>Low impact on IT</b>	Does not require a change to existing systems and is easy to install and maintain.
<b>System scalability</b>	Scales to support individual workgroup users through to the enterprise.
<b>Works with all file-based data</b>	Manages data for all project files – not just Gemcom application files.

For more information, email [hub@gemcomsoftware.com](mailto:hub@gemcomsoftware.com) or visit [www.gemcomsoftware.com/hub](http://www.gemcomsoftware.com/hub).

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