

Nasuni for the Oil & Gas Industry



Nasuni and the OSDU Forum

With the OSDU Forum and OSDU Data Platform gaining momentum, Nasuni's energy customers (many of whom are leading members of OSDU) are excited by the impact that platform is providing across the industry. Nasuni has joined more than 250+ members, including the major cloud providers, AWS, Microsoft, Google Cloud, and IBM, to build a vibrant open ecosystem to unlock the value of seismic data to make smarter decisions faster.

“Using Nasuni, we have consolidated multiple PBs of file data across global hubs in Amsterdam, Houston TX, London UK.

This has enabled us to eliminate backups altogether.”

Dealing with Massive CAD Files, Seismic Data, and Remote Locations

The oil & gas industry operates in a vastly distributed and hostile global environment. Volatility in the political, economic, environmental, and social spheres put pressure and risk on the entire supply chain, creating a perfect storm of business uncertainty. Cyber-attacks are perpetually looking for vulnerabilities in IT defenses. The fundamental inability to store and share ever-increasing seismic data, 3D CAD renderings, and interpretation models across remote locations impacts the overall time-to-oil.

Reducing time-to-oil is of tremendous strategic importance for upstream exploration and production firms. Firms rely on sophisticated modeling and interpretation of massive seismic data that can take 12-18 months to acquire, process, and interpret. However, 80% of that time may be wasted wrestling with data management. Other factors that can impede the interpretation process include:

- Geoscientists are unavailable at the right location for the right project.
- Data sovereignty legislation requiring data to be maintained within national borders.

Nasuni File Data Services for Oil & Gas Producers and Service Providers

Nasuni eliminates critical aspects of the oil & gas industry's supply chain risk with a modern file storage platform built for the cloud that removes dependencies on vulnerable NAS and file servers in both data centers and remote, inhospitable locations. Nasuni lets operators and service providers consolidate all business and CAD file data, including extensive seismic and modeling data.

Once a firm's data files are consolidated in a single, global file system, tremendous benefits are unlocked that cannot be achieved by other means. Nasuni File Data Services reduces costs, breaks down data silos, streamlines data management, protects against ransomware, and inspires innovation.

Reduced Costs

By eliminating legacy on-premises infrastructure needed for file servers, backup, and DR, Nasuni can provide up to 70% or more savings over traditional architectures and reduce data center footprint by up to 90%. Using cost-effective cloud object storage instead of tiering to the cloud, Nasuni costs significantly less than other cloud storage solutions.

Consolidated File Data

Nasuni provides the largest oil & gas firms with a single, global file system accessible to one or hundreds of physical sites. Employees of all levels can access the system directly. Data can be accessed from regional, secure cloud storage (e.g., Amazon S3, IBM Cloud, Microsoft Azure Blob Storage, Google Cloud Storage, etc.) instead of multiple, on-premises file servers or NAS devices.

Streamlined Data Management

Data managers spend 40% of their time managing data and storage capacity, which often requires moving massive files from one storage container to another due to volume limits. Nasuni streamlines this workflow because there are no volume limits, and the need to move large files around is eliminated.

"We're using Nasuni to reduce our seismic interpretation time to scale **more effectively with no file volume limits** and cater more effectively for geographic spread of the geoscience resources we have across the world."

Remote Data Access

Nasuni provides access and performance at remote exploration sites and drilling fields limited to Line of Sight (LoS) and 4GLTE connections using lightweight edge caching appliances. This allows demanding geo-seismic applications for seismic interpretation, post-processed data management, and storage of large files to be accessed anywhere in the world.

Built-in Data Protection

Traditional backup software, media servers, and archival storage, along with their high costs, are a thing of the past. Nasuni Continuous File Versioning® enables files to be restored rapidly from the cloud to virtually any point in time, significantly improving RTOs and RPOs. Nasuni can recover a million files in less than a minute in the event of a ransomware attack, which is impossible with traditional backup.

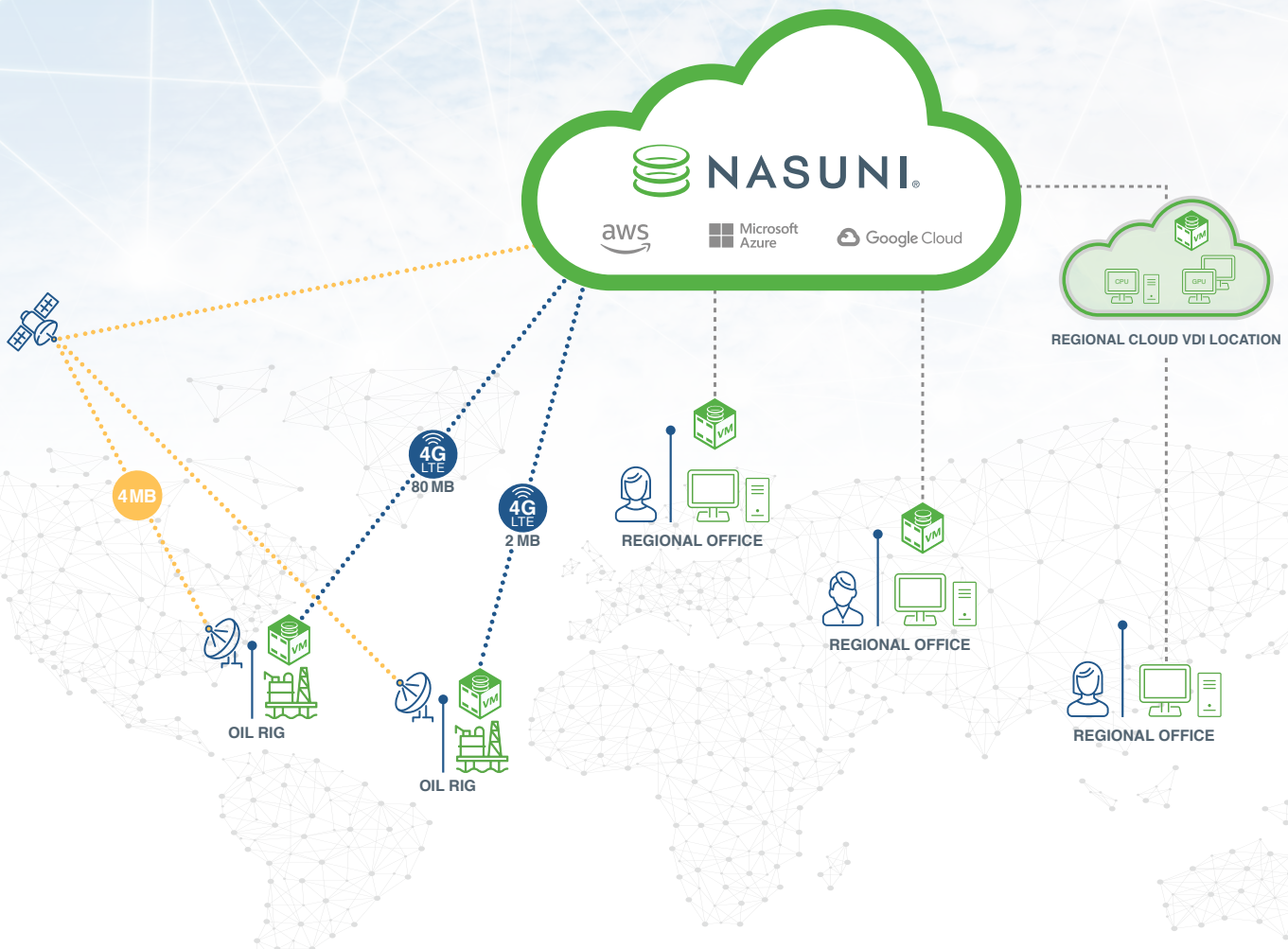
Optimized Cloud VDI

Modern VDI and Digital Workspace technology from vendors like VMware, Citrix, AWS, Microsoft, and Workspot offer an alternative that no longer requires geoscientists to physically sit at high-powered workstations to analyze and model seismic data. Nasuni is essential to multi-region VDI deployments because it synchronizes user profiles and file data between VDI sites and caches them in the same data centers as the desktops to provide optimal file access.

AI Innovation

Once data has migrated to the cloud, oil & gas providers can harness the latest AI/ML cloud services by AWS, Microsoft, or Google Cloud for innovative data analysis. While the industry at large is still in the early stages of understanding the potential of AI/ML, an exciting new era of being able to access petabytes of seismic data in a single, global repository is here.

Seismic/Geospatial Data Example



“We use Nasuni to consolidate our file services on a mixture of cloud storage platforms. We especially like the fact that under this platform, **Nasuni dramatically reduces risk so that business continuity is maximized.** Our engineers no longer suffer from failing hardware.”



Learn more

To learn more about how Nasuni is helping the Gas & Oil industry improve “Time to Oil” visit www.nasuni.com/industries/oil-and-gas



ABOUT NASUNI CORPORATION

Nasuni Corporation is a leading provider of file data services. The Nasuni file data services platform is a cloud-native replacement for traditional network attached storage (NAS) and file server infrastructure, consolidating file data in easily expandable cloud object storage at a fraction of the cost. Nasuni also eliminates the need for complex legacy file backup, disaster recovery, remote access, and file synchronization technologies, dramatically simplifying IT administration and enhancing worker productivity. Organizations worldwide rely on Nasuni to easily access and share file data globally from the office, home or on the road. Sectors served by Nasuni include manufacturing, construction, creative services, technology, pharmaceuticals, consumer goods, oil & gas, financial services, and public sector agencies. Nasuni’s corporate headquarters is based in Boston, Massachusetts, USA delivering services in over 70 countries around the globe. For more information, visit www.nasuni.com.