

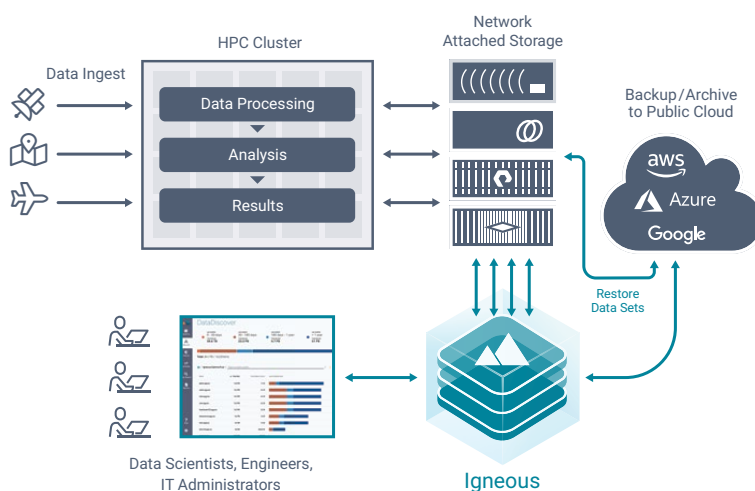


Modern Backup, Archive, and Cloud Tiering for Geospatial Organizations

Rapid advances in sensor technology have not only seen an increase in the total number of active devices, but in image resolution and in the size of other files that they generate. This proliferation of modern devices is producing data faster and more cheaply than ever before. When you factor in data processing that often increases the original data footprint by tenfold, geospatial organizations are struggling to protect and archive their valuable data. Often, the true value of this data lies in its future use, well beyond initial collection. Backing up data in any enterprise can be a challenge, but backing up and archiving data at this scale requires a powerful, automated, and cost-efficient solution to meet the needs of today's massive data growth.

By nature, geospatial data cannot be re-created, so relying on legacy backup solutions and management tools that can't keep up with massive data growth is not an option. Geospatial organizations need a scalable, fast and easy-to-use data-protection and archive solution that can protect their data at any stage. From ingest to data processing to the final outcome, Igneo addresses the challenges that naturally come with geospatial workflows. Engineered to deliver high-performance with SaaS simplicity at any scale, Igneo enables geospatial enterprises to reliably discover, analyze, and protect billions of new files.

Igneo Unstructured Data Management for Geospatial Workflow



Visualize, protect and move data through all geospatial workflows, including Raw Data Storage, Data Processing, Analysis, and Results

Requirements of Unstructured Data Management for Geospatial Workflows

Petabyte-scale data management

Geospatial organizations generate petabytes of file data, which can stress legacy backup solutions that aren't engineered for the scale of data creation. To protect their valuable digital assets, geospatial organizations need data-protection and data-visibility solutions that can handle petabyte-scale data and file-dense workloads.

Simple and powerful archive capabilities

The rate at which geospatial organizations create and consume data means they need a reliable mechanism that can not only identify and protect datasets still in use, but also archive hundreds of terabytes or more of inactive data per month in order to maintain primary-tier NAS space.

Performance and throughput

Whether for backup or archive purposes, geospatial workflows need a high-performance, high-throughput solution that offers native support for seamlessly moving data to and from cloud storage.

No-impact data discovery and protection

With the contractually-driven deadlines and 24x7 availability requirements of most geospatial organizations, production workloads and services must not be impacted by backup or data-movement actions.

Business Benefits

Business benefits for geospatial organizations of using an Igneo SaaS data management solution include:

- **Modern storage portfolio** leveraging powerful software architectures to scan, index and move data across primary, secondary, and cloud tiers.
- **Scale-out architectures** across both performance and capacity tiers, delivering maximum scalability of large datasets.
- **Compelling TCO** from true operational efficiency over traditional vendors for visibility, protection, and archive.

Igneous Overview

Igneous provides data visibility, protection, and movement for any NAS, any cloud, and any workflow. Igneous consolidates all data management functions, allowing organizations to fully tap the value of their unstructured data while lowering costs, reducing risk, and optimizing IT resources.

Igneous DataProtect simplifies and automates data protection and archive for geospatial workflows. With support for any file and object protocol, any NAS platform, and for any public cloud, Igneous DataProtect enables geospatial organizations to consolidate their backup workflows without vendor lock-in. Even in heterogeneous environments that use a mix of NAS architectures, Igneous can protect data from all systems, either onsite, offsite or in the public cloud.

Igneous DataDiscover is the fastest way to see all data across all NAS systems – including data age, usage patterns, total capacity, and object counts at any level – all through an intuitive global heatmap view. Visibility into where data is, how old it is, and the last time it was accessed is invaluable to Geospatial organizations who need to manage their explosive data growth. DataDiscover rapidly locates inactive datasets and offers click-to-archive capabilities that can quickly and easily free up primary-tier NAS capacity.

Purpose-built to handle unstructured data at any scale, including hundreds of file systems and petabytes of data, Igneous delivers high-speed backup and visibility services. To protect business-critical workloads, Igneous monitors system latency during discovery and backup operations, and automatically throttles back on resource consumption as necessary during busy periods to ensure system availability.

Key Features of Igneous Unstructured Data Management:

- **SaaS delivery.** For simplified deployment and streamlined operations, Igneous remotely monitors, troubleshoots, and performs all software updates.
- **High performance.** Igneous moves data in parallel streams at line speed to maximize network bandwidth and protect data at scale from any NAS system.
- **Search.** Igneous' scale-out index store provides integrated search and discovery of all file data on primary, secondary, and cloud tiers.
- **Cloud integration.** Igneous integrates seamlessly with all cloud providers, locations, and tiers. Igneous also offers data bundling of small files, and data compression in-flight and at rest, minimizing cloud consumption and transaction costs.

About Igneous

Igneous is the SaaS data management solution for file intensive environments. Data-centric enterprises trust Igneous to provide visibility, protection, and movement at scale. Any NAS. Any Cloud. Any Workflow.

Igneous: Petabytes today, exabytes tomorrow.

To learn more about Igneous unstructured data management and your Geospatial workflows, contact us:

1-844-IGNEOUS or 206-504-3685 or info@igneous.io

The Igneous Difference



Fast file movement:
up to 100TB per day



Simple solution delivered,
managed, and consumed
as-a-Service



Support for any NAS system,
file protocol and cloud service



Support for on-premises, cloud,
or hybrid backup and archive



Time to Value in minutes and
hours, vs. days and weeks as
with other solutions

Before Igneous

- Legacy Backup Infrastructure and Processes
- Disk-to-Disk (D2D) Replication Silos
- Offsite Tape Rotation

With Igneous

- High-Performance, Latency Aware Data Protection
- Consolidated, Platform-Agnostic Data Movement
- Backup and archive to and from Cloud Storage

"We needed an enterprise-class solution. We needed it to be easy to manage, scalable across multiple NAS platforms, cloud-friendly, and we needed it to perform."

● Carl Lucas, VP of Information Technology at Quantum Spatial

"Igneous never blinked at the size of our data or the number of files - they explained their approach and what to expect."

● Travis Spurley, Senior Systems Engineer