Reduce storage costs with native cloud access.

Analyze, mobilize, and monetize file and object data across clouds, data centers, and the edge.

Challenge Summary

Unstructured data has reached a tipping point for cost and complexity. IT leaders indicate greater urgency to manage data efficiently to reduce costs and to help end users find new insights.

The International Data Corporation (IDC) estimates that by 2026 the sum of all data in the world will be in the order of 221 zettabytes (one zettabyte is 10^{21} bytes). Most of that data will be unstructured, approximately 10% will be stored, and even less will be analyzed.

The general consensus among industry experts is that 80 to 90 percent of data today is unstructured and 90% of it was created in the past several years. Unstructured data is growing at a rate of 55% to 65% annually.

Human-generated unstructured data includes emails, YouTube videos, social media posts, text messages, audio/video files, MS Office documents, presentations, log files, and the list goes on. Machine-generated unstructured data includes satellite imagery, scientific data, digital surveillance, sensor data, and software logs.

Benefits Summary

- Migrate data 27 times faster with zero egress or access fees.
- Analytics-driven cloud data migration delivered as a service.
- No more data silos, global analytics and search.
- Find the exact data, move only what you need, and make informed decisions
- Transparent data tiering delivering native file and object access with no disruption, agents, stubs, or changes to the data path.

Unstructured data has reached a tipping point for cost and complexity. IT leaders indicate greater urgency to manage data efficiently to reduce costs and to help end users find new insights. More than 50% of enterprise IT are managing at least 5PB of data today. In 2022, 87% of IT leaders rate managing unstructured data growth as a top priority, up from 70% in 2021. A majority (65%) of organizations plan to, or already, deliver unstructured data to big data platforms.

The Challenge

To better manage explosive data growth, reduce costs, and get more value from your file and object data, you need to first understand your data to know what's cold and stop treating all data the same.

Moreover, cloud data migrations can turn into a real headache. You need an analytics-first approach ensuring you know which data can migrate to each specific class and tier, and which data should stay on-premise in your hybrid cloud storage infrastructure. Ignoring cloud tiering and data archiving can cost you millions if you do not offload unused cold data that could weight 70% of your storage.

The Solution

Get fast and meaningful insights on petabytes of unstructured data—all analyzed in the background—by Komprise. Create a global file index and power your big data analytics and AI/ML initiatives with the right data using the only scale-out, adaptive, non-intrusive, analytics-driven data management software that delivers the insight needed for smarter data decisions.

With Komprise patented Elastic Data Migration, you can migrate petabytes of NAS and file data, or object data, simply and reliably . Plus, you get full file fidelity, reliably fast data transfer, and intelligent data migrations using analytics, and unlike gateways, there is no expensive infrastructure needed.

Only Komprise right-sizes your data storage, backup, DR, and cloud by analyzing and transparently tiering cold data files from any NAS without any access disruption whatsoever—maximizing savings and enhancing performance of hot data. So when it comes to cloud tiering, ensure you first know your cloud provider, cloud storage costs, and tiering choices. It is important to understand that most public cloud storage vendors have lots of hidden costs. They charge you for data movement, ingress, egress, API calls, deletion, minimum object sizes, retention time, etc.

Komprise Elastic Data Migration makes cloud data migrations simple, fast, and reliable with continuous data visibility and optimization. Komprise routinely migrates petabytes of data (SMB, NFS, Dual) for customers in many complex scenarios: disparate NAS, thousands of shares, migration jobs scheduled via API, regulated industries with stringent security needs that require access permissions to be translated (logs of MD5 checksums), and more.

Seagate Solution

Seagate® offers several storage solutions from direct attached storage to cloud, edge, and data centers. All Seagate storage devices have been tested with Komprise technology, and the Komprise solution has been proven to run smoothly, browsing across all data repositories.

Seagate Lyve™ Cloud captures massive volumes of unstructured data while reducing IT costs with unrivalled cost per petabyte and a predictable as-a-service consumption model. With exceptional reliability, Seagate data storage systems store most of the world's data—shipping over 400 exabytes per year. For 40+ years we have offered the best products, expert service, and support. As the only enterprise storage manufacturer that designs and builds its entire system, Seagate creates unparalleled partner integration and compatibility.

Komprise Solution

Komprise offers one platform for large enterprises to manage unstructured data across several verticals, including life sciences, healthcare, financial services, higher education, public sector, and media and entertainment. Customers save up to 70% on storage and backup costs while achieving an easier, faster path to the cloud where file and object data can be leveraged for new value. Komprise delivers 100% native access to cloud data with 27x faster migration using global analytics and search, transparent data tiering, and smart data migration.

Komprise's deep analytics function enables you to make the most out of your data. While simultaneously helping you organize and re-file data, it also allows you to use smart data search to find what you need in real time with metadata validation. Their smart data migration tool enables you to move data to and from NAS or from cloud to cloud to be as vendor agnostic as possible.

| How it Works: | Billions of files spread across data centers and cloud | In-place index, tag, select and transfer | Transfer only curated file/object, attributes or both | AI/ML/BI neutral net analytics | Right place for data efficiency |

Search & Curate

Data Sources

Define custom query to find specific data set.

Execute & Enrich

Run Fuction   Add Tags

Analyze and tag data set with additional metadata

Cull & Extract

Ingest to data lakes, AI/ML

Move only the tagged data for analytics, AL/ML, etc.

Manage Lifecycle

Move data to lower cost storage tier after analysis.

As new data arrives, the workflow automatically runs again

Total Solution

The intelligent and efficient Seagate and Komprise solution ensures that your data and storage infrastructure will be analyzed for data orchestration and reduce cloud and data storage TCO. Unlock unstructured data potential from a single platform to easily search, find, and tag the exact files you want across all your data locations and move the right unstructured data to your modern Seagate system and Lyve Cloud data platform. With the help of transparent data tiering and smart data migration, you will be able to optimize your storage management, leading to significant cloud TCO reduction with Lyve Cloud.
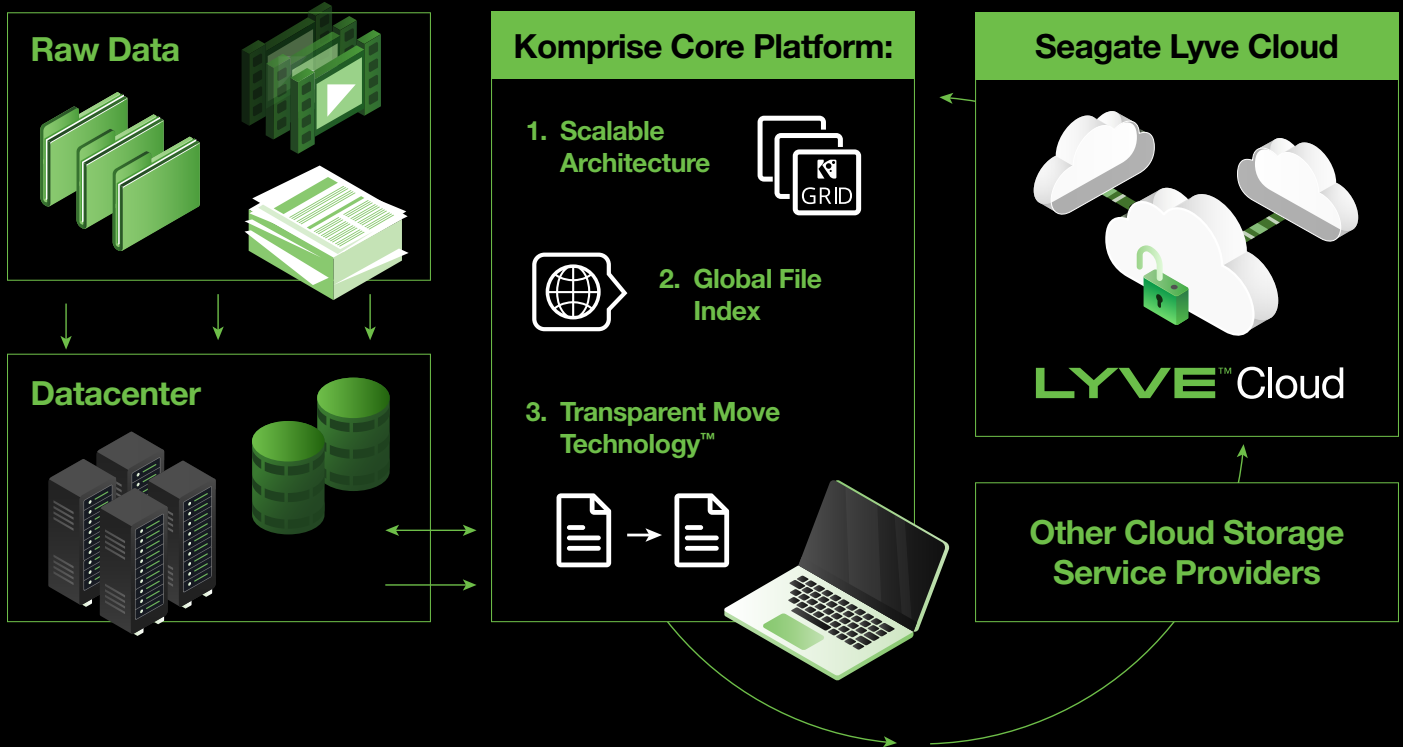
Artificial intelligence, machine learning, and all the variants including deep learning and natural language processing are now tools of the trade in our data-driven society. Moreover, enterprises across industries are faced with exponential data growth, creating major challenges for data storage systems and data protection.

These use cases/processes generate an unprecedent amount of unstructured data that is difficult to manage, not to mention mobilize.

Unstructured data makes up at least 80% of all data and the creation and replication of data is growing at a faster rate than storage capacity—making it too large to process and analyze in-house for most enterprises. This data does not fit nicely into rows and columns. It comes in a variety of formats with no underlying semantic structure and is extremely difficult to ingest into traditional analytics platforms or move intelligently to more cost effective storage. A smart data migration strategy for enterprise file data becomes critical: knowing which data can migrate to which class and tier, and which data should stay on-premise in your hybrid cloud storage infrastructure is imperative.

The Seagate and Komprise partnership combines fast, affordable cloud object storage designed for any unstructured data management workload with finding automatically and dynamically cold data across NAS—and archives it transparently. There are no extra cost transaction or access costs to the Seagate Lyve Cloud, and no disruption to file-based users and applications. Unlike competitive solutions, Komprise does not employ static stubs or agents that are proprietary and can cause difficulties such as degrading primary storage performance or availability. Seagate Lyve enables object data durability and supports configurable object immutability to protect against accidental deletions, ransomware, and viruses. Using Komprise and Seagate Lyve is the smart answer to address your organizations' data growth challenges.

Seagate Lyve Cloud and Komprise Solution

Raw Data

Datacenter

Komprise Core Platform:

1. **Scalable Architecture**

GRID

2. **Global File Index**

3. **Transparent Move Technology™**

Seagate Lyve Cloud

LYVE™ Cloud

Other Cloud Storage Service Providers

Conclusion

Komprise proves to be the only platform to manage unstructured data. Their solution helps to save up to 70% of storage cost and migrates data 27x faster, enabling 100% native access to cloud data. It works smoothly with Seagate's Exos® systems products and Lyve edge-to-cloud mass storage platform, a comprehensive suite of services built for the data-driven, distributed enterprise. It complements your existing cloud infrastructure, extending it to the edge—closer to the data source—to help overcome the barriers of data gravity. Integrate Seagate Lyve is predictable, simple, as-a-service consumption means no vendor lock-in and no surprises on your monthly bill. It breaks down multi-cloud, multi-site data silos with automated, policy-driven orchestration for frictionless, rapid movement and ingestion of data from endpoint to edge to cloud.

Data is never static. It's dynamic, fluid, and alive.

Features & Benefits Summary

- Get fast and meaningful insights on petabytes of unstructured data for informed data orchestration.

- Migrate petabytes of data, or object data, simply and reliably to Lyve Cloud and Seagate storage systems and scale-out your existing data storage.

- Migrate data to Lyve Cloud without access disruption for better TCO and data resiliency.

- Seagate and Komprise make cloud data migrations simple, fast, and reliable with continuous data visibility and optimization.

- Feed your data pipelines with AI-ready data for data lakes, machine learning, cloud analytics, or cloud data warehouse initiatives.

Ready to Learn More?

Visit us at **seagate.com/lyvecloud**

SEAGATE