

# SCALABLE, AUDITABLE, AND VENDOR-NEUTRAL UNSTRUCTURED DATA MANAGEMENT



STORAGEMAP GIVES YOU DEEP INSIGHTS INTO YOUR DATA'S KEY CHARACTERISTICS AND ENABLES YOU TO TAKE FAST AND INFORMED ACTION TO OPTIMIZE YOUR STORAGE AND CLOUD ENVIRONMENT.

## KEY BENEFITS

- Provides clear and unambiguous reporting for better stakeholder management.
- Enables hybrid-cloud and avoids storage vendor or cloud lock-in.
- Gets data where it needs to be to extract the most value from it.
- Reduces the risk, cost, and carbon footprint of your storage and cloud estate.

## CHALLENGES OF MANAGING MASSIVE UNSTRUCTURED DATA VOLUMES

Driving new business opportunities at the lowest possible cost, risk, and CO<sub>2</sub> are the challenges of managing unstructured data.

Traditional data storage management solutions are not sufficient to solve these challenges for modern enterprises because they:

- Do not work across products from different storage and cloud vendors.
- Do not span both File and Object storage.
- Provide only basic reporting capabilities.
- Cannot scale to billions of files and hundreds of Petabytes.
- Are not outside of the hot data path.

To meet this growing challenge, organizations are turning to modern data storage management solutions to make sense of their enormous amounts of unstructured data and to ensure that it is bringing value to their organizations at the least possible cost, risk, and CO<sub>2</sub>.

**Actions such as migration, archiving, replicating, data pipelining, and deleting are quickly and easily executed using StorageMAP.**

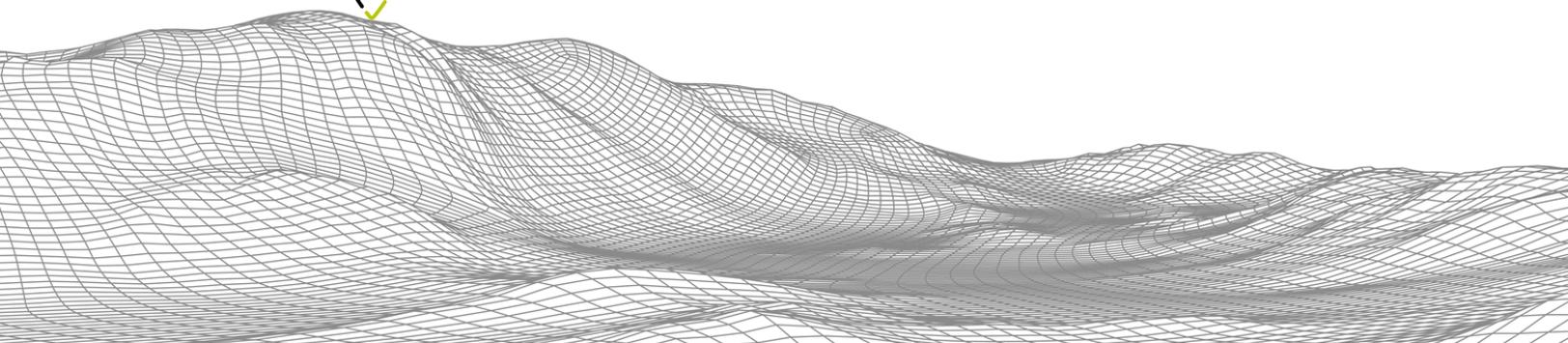
## COMPLETE VENDOR-NEUTRAL UNSTRUCTURED DATA MANAGEMENT

StorageMAP is a scalable, auditable, and vendor-neutral unstructured data management solution. It is a workflow-driven end-to-end software platform that provides deep insight into the metadata, facilitates organization of the data into manageable data sets, and takes action with a powerful and advanced data mobility engine.

Installation is simple and results are fast. Reports are organized into Dashboards for all stakeholder roles and can be tailored to any criteria specific to the unique needs of the company and industry.

The result is a highly optimized hybrid-cloud environment that helps to ensure unstructured data is realizing its value to the organization.

***A Gartner Strategic Assumption is that 'By 2027, at least 40% of organizations will deploy data storage management solutions for classification, insights and optimization...'***



## SCALE-OUT PLATFORM-AGNOSTIC METADATA INTELLIGENCE AND DATA MOBILITY

StorageMAP's foundation is a dedicated and robust scale-out architecture designed to rapidly scan, index, aggregate, and query thousands of storage servers and services, hundreds of petabytes of data, and billions of files and objects.

StorageMAP is built upon four powerful engines to manage large volumes of unstructured data.

- The metadata Scanning Engine (*mDSE*) collects and aggregates metadata using a parallelized workload that can be distributed across an arbitrary number of "workers" in the storage environment.
- The metaData Query Language (*mDQL*) analyzes and presents insights into the large amounts of metadata collected during the scanning.
- The unstructured Data Workflow Engine (*uDWE*) is where actions are configured, scheduled, and dispatched to the processing pipeline to execute and log results.
- The unstructured Data Mobility Engine (*uDME*) moves, copies, replicates, and verifies large and complex unstructured datasets based on trends and characteristics derived from the metadata intelligence.

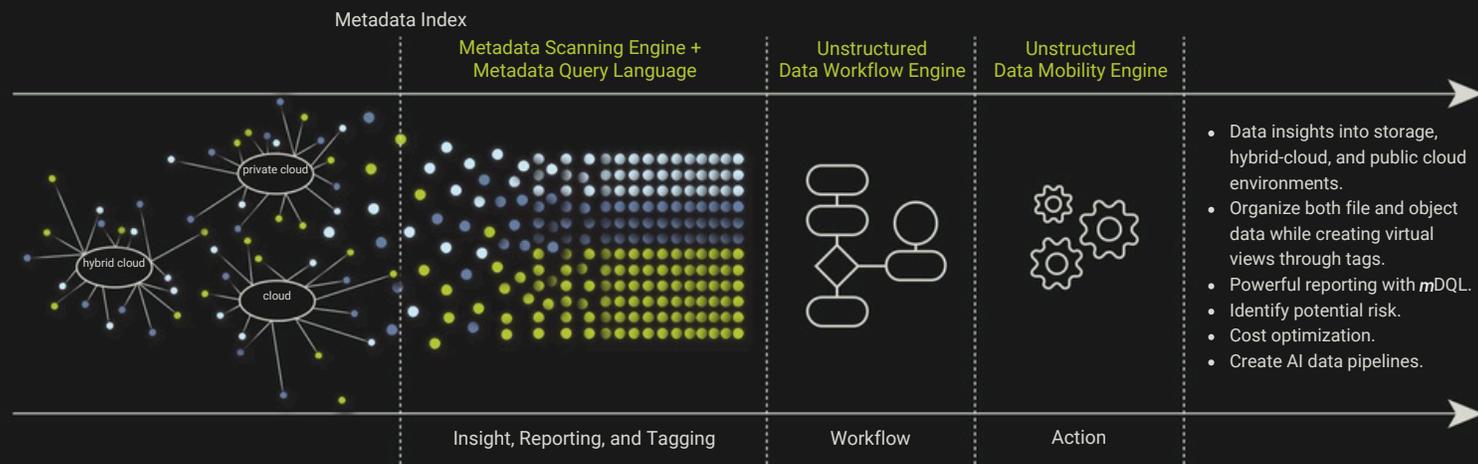
As the amount of unstructured data under management grows, StorageMAP increases the parallelism resulting in a performance profile that scales with the data and that is only limited by the storage systems themselves. StorageMAP is platform and vendor-agnostic since it uses standardized NAS and Object storage protocols to access the data. It does not require agents on the storage systems, nor does StorageMAP reside in the data path between the application and the storage server eliminating vendor lock-in.

## ADVANCED INTEGRITY PROTECTION (AIP)

The StorageMAP product team considers the integrity and security of data the highest priority. Extremely defensive software coding has generated technologies and methods that work in concert with each other to protect data under management:

- File Level Verification – Verifies the integrity of every file or object copy through a strong cryptographic content digest comparison.
- Advanced Integrity Protection – Prevents any form of data corruption by detecting unexpected data modifications during data migration or data copy actions.
- Chain-of-Custody – Generates a "Flight Recorder" for the data copies that proves that the destination content is the same as the source.
- User Error Mitigation – Detects many common user mistakes and misconfigurations in order to inform users about actions which could lead to unwanted results.

## SOFTWARE ARCHITECTURE



## STORAGEMAP FEATURES

ANALYTICS & REPORTING	
Analytics	A standard set of detailed analytics based on scanned file and object data
Custom Dashboards	Create custom analytics views that can be exported as reports
Advanced Analytics	Find, filter, and classify file and object data across the entire environment
Advanced Querying	Execute complex queries using metadata Query Language (mDQL)
Data Organization	Use tags and tagging groups to organize data
Reporting	Cost & carbon, executive summaries, technical and administrative
DATA MANAGEMENT ACTIONS	
Data Mobility	Move, copy, archive, pipeline (see Add-ons below for migration and replication)
Data Deletion	Safe delayed & controlled delete
SCALE OF DATA MANAGEMENT	
Storage Capacity	Unlimited
File Count and Object Count	Unlimited
Number of Systems	Unlimited
DEPLOYMENT & OPERATION	
Deployment	Linux VM deployed on-premises, cloud, or hybrid cloud
One-Click Upgrade	Simply upload an upgrade image file and apply with a single click
API	REST API for programmatic interaction with StorageMAP
Audit Logs	User actions, activities, configuration changes
Vendor Neutral	Any unstructured data platform
STORAGE PROTOCOLS	
Data Center Storage	Any SMB/NFS file server or S3 object server
Cloud Storage	Any SMB/NFS/S3 storage cloud service
SMB Protocols	CIFS (SMB 1), SMB v2-3.x
NFS Protocols	NFSv3-v4.x
Object Protocols	S3
Protocols Conversions	SMB to S3, NFS to S3 (i.e., file to object)

## STORAGEMAP ADD-ONS

MIGRATE	
Migration	Full featured migration add-on with Advanced Integrity Protection (AIP) and Chain-of-Custody
Speciality Migration	Primary + archive platforms (tiered), Multi-Protocol, WORM (Retention) data
Data Identity Migration	Convert SMB SIDs, NFS UIDs/GIDs in-flight during a migration
REPLICATE	
Data Protection	Heterogeneous no-lockin replication for vault copies
NAS to NAS	Replicate any NAS system to any other NAS system (cloud or on-premises)
Object to Object	Replicate any S3 system to any other S3 system (cloud or on-premises)

### UNSTRUCTURED DATA MANAGEMENT SOFTWARE THAT REDEFINES STORAGE

StorageMAP gives insight into your unstructured data and helps you to get the most value at the least possible cost, risk, and CO<sub>2</sub>. With StorageMAP, your storage or cloud will be efficient, agile, and resilient – always, automatically, and continually. Best of all, with StorageMAP, your entire data landscape adapts dynamically at the speed of change, directly in line with your business needs.



### SUPPORT AND SERVICES

DatadobiDriven is a comprehensive support and services offering designed to ensure a positive outcome for every Datadobi customer. DatadobiDriven integrates system installation and setup, administrator training, 24x7 technical support, and professional services. The DatadobiDriven team of unstructured data and storage experts works day and night to help you optimize your storage environment.

### ABOUT DATADOBI

Datadobi, the global leader in vendor-neutral unstructured data management, brings order to heterogeneous unstructured storage and hybrid-cloud environments via its StorageMAP platform. Datadobi helps enterprises manage unstructured data growth through the power of visualization, organization, and action in a single pane of glass. Founded in 2010, Datadobi is a privately held company headquartered in Leuven, Belgium, with offices in New York, Melbourne, Dusseldorf, and London.