



SOLUTION BRIEF

Panzura Symphony

Harmonize the complexities of your unstructured data with real business outcomes.



Introducing radical agility and control over sprawling data estates, Panzura Symphony is designed to address the multifaceted challenges faced by IT Operations (ITOps), Line of Business (LoB) leaders, and DevOps teams in managing unstructured data. The astounding growth of this data, which includes most of the files people work with daily, has reached 55-65% annually. In 2023 alone, organizations generated over 73,000 exabytes of unstructured data.

The spiraling complexity of data systems and the rise of AI are making data management enormously difficult. The average employee uses 37 tools for daily work, and 70% of those are used for unstructured data. Enterprise organizations struggle to handle and store vast amounts of data efficiently and securely amid sprawl and bloat.

Panzura Symphony provides comprehensive data operations under a single pane of glass. It helps teams align data with business priorities and objectives so they can quickly and intelligently derive the greatest value from their unstructured data estate.

53%

of organizations say implementing a unified, governed, secure, accessible unstructured data platform will positively impact cost and innovation (92%), as well as security (80%).

22%

of unstructured data is replicated and less than half is ever used, wasting storage budgets and contributing to the ever-increasing volume of unstructured data.

80%

of enterprise data remains largely untouched or unanalyzed after its creation; Unstructured data accounts for 80% of the data collected globally, with only half of it being analyzed.

Unstructured data at enterprise velocity

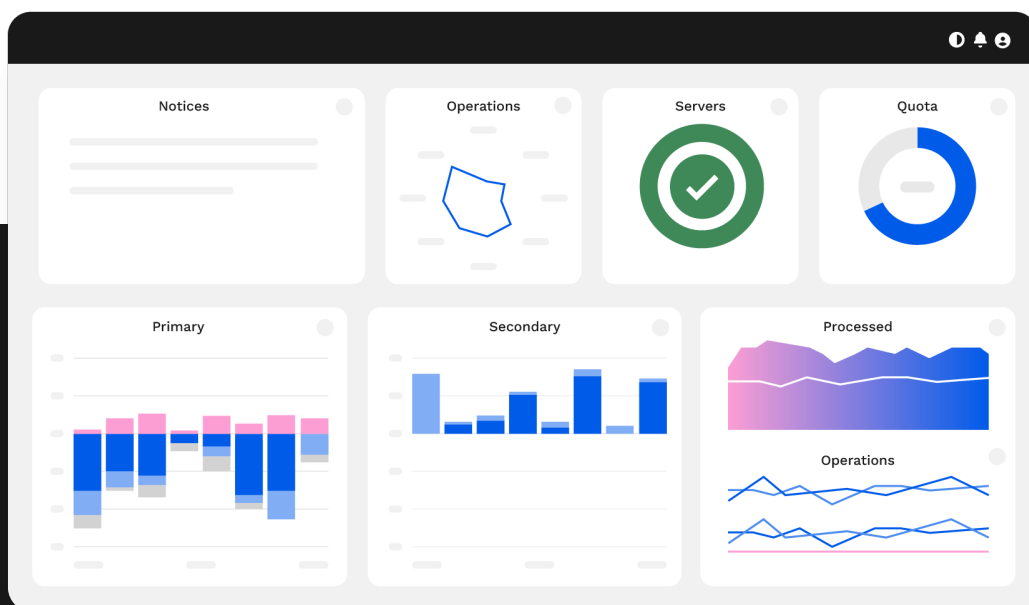
LoB leaders face the complexity of ensuring data is accurately categorized, securely stored, and readily accessible when needed, supporting compliance and governance requirements. Panzura Symphony provides granular control over data assets, allowing organizations to establish and enforce finely tuned data management policies. It also empowers more efficient data lifecycle management from creation, storage, and usage through to archiving, and deletion. Data is aligned with business requirements, enabling quicker, more informed decisions and reporting.

For ITOps, the primary challenge lies in balancing on-premises and cloud technologies to create a cohesive, agile environment in an evolving digital era. Panzura Symphony has a unified dashboard and responsive UI, allowing for seamless management and mobilization of data across various storage environments. Uniquely, Symphony natively supports vendor protocols for smooth and efficient data handling over diverse systems. This approach simplifies data management, reduces operational costs, and enhances data visibility and control, while also streamlining AI workflows.

Enhanced workflows at exabyte scale

DevOps teams often struggle to manage multiple environments and ensure security during development. Panzura Symphony supports various file system deployments and protocols for effective data management across different architectures. Webhooks, APIs, post-run actions, and relational database integration further enhance DevOps workflows. By providing comprehensive data operations and improving data visibility, governance, and real-time access across ecosystems, Symphony helps teams achieve greater efficiency.

The platform’s automated, exabyte-scale data discovery and assessment, risk and compliance analysis, and dynamic data movement orchestration dramatically reduce storage costs and improve workflow efficiency. Additionally, Panzura Symphony supports a wide range of file systems, NAS deployments, and protocols, ensuring interoperability between environments and allowing teams to effectively manage data regardless of the underlying infrastructure.



Unlock Powerful Data Advantage



Improved Visibility and Operational Efficiency

Streamlining data operations reduces the time and effort required to manage data, improving visibility and control over data assets. Real-time data access across ecosystems streamlines workflows and reduces the time spent searching for information.



Significant Cost Reductions and Savings

Efficient centralized data management processes, and dynamic data movement, reduce operational costs. Optimized data placement and usage minimizes storage footprints, reduces duplication of efforts, and eliminates the need for multiple tools and interfaces.



Enhanced and Improved Decision Making

Data discovery, real-time access, and comprehensive visibility enable quicker, more informed decisions. With all relevant data accessible in one place, businesses can align unstructured data with business priorities and leverage data insights to make timely and smarter decisions.



Proactive Data Posture and Security

Enhanced control over data operations and improved data governance helps teams identify vulnerabilities and ensure data integrity. This proactive approach leads to improved operational efficiency and better alignment with business objectives, while enhancing overall data security.



Granular Compliance and Risk Management

Automated risk and compliance analysis ensures data quality, consistency, and adherence to mandates. Control over data assets allows teams to establish and enforce policies that ensure data is accurately categorized and securely stored, supporting regulatory reporting.



Automated Scalability and Flexibility

A unified dashboard seamlessly integrates new data sources and storage environments, simplifying complex data management. This approach uncovers new business opportunities and enhances data and storage experiences, allowing businesses to remain nimble and respond swiftly to change.

Turbocharge Data Access with Unmatched Reliability, Security, and Efficiency

Patented Innovation Assures Data Discovery and Integrity

Panzura Symphony's patented, innovative approach to data management offers a secure, cost-effective, and efficient way of handling unstructured data in large-scale, diverse environments.

Ensuring quick, reliable access to unstructured data, regardless of volume, is crucial for maintaining operational efficiency and data security. It's also a big challenge for enterprise organizations. Traditional methods often fall short, introducing security risks and increasing infrastructure costs.

Overcoming Legacy Challenges

Symphony makes unstructured data easily findable, even after "dehydration." This process creates block files with smart Metadata Pointers, preventing issues like deletion or corruption. Most importantly, it reduces the risk of security breaches, ensuring that data remains protected from unauthorized access and manipulation.

Unlike other methods that use shortcuts or symlinks, which introduce security risks such as privilege escalation and data exfiltration, Symphony's approach achieves non-disruptive file content migration and de-migration that maintains the integrity of the original storage namespace. This keeps infrastructure costs low and data security high.

Achieving Data Excellence

Symphony supports storage and server operating systems like NetApp Data ONTAP and Windows Server natively. Eliminating the need for additional network or storage infrastructure, Symphony removes the complexity and additional costs associated with implementing and managing SMB or NFS connections. Intelligent use of Metadata Pointers also reduces storage costs by maintaining accessibility without data duplication.

With Panzura Symphony, teams can manage data at massive scale with built-in support for virtually any storage environment. That means they can focus on more strategic tasks, empowering them to innovate and achieve their business objectives without being bogged down by operational overhead.

Revolutionizing Data Management with Advanced Discovery, Compliance, and Orchestration



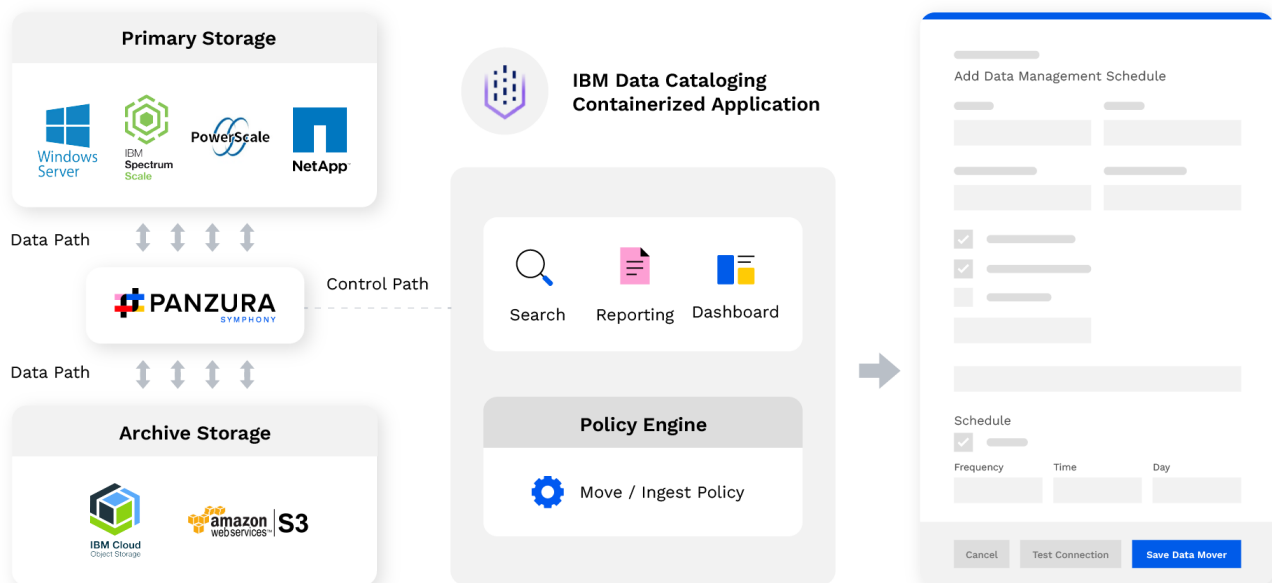
Data Discovery & Assessment

Data Discovery and Assessment allows LoB and ITOps leaders to quickly identify, inspect, and evaluate large volumes of data, leading to faster insights and decision-making.

Panzura Symphony allows teams to conduct automated and comprehensive data discovery and assessments, providing a detailed overview of data including its structure, content, and relationships. It changes the way businesses gain insights into their entire data estate.

- ✓ Detailed overviews of data structure, content, and relationships.
- ✓ Identification of cost optimization opportunities based on data volatility, temperature, file type, file size, ownership, and metadata tags.
- ✓ Granular control at the folder, share, entire file system, or bucket level.
- ✓ Data aggregation across multiple file systems and object stores.
- ✓ Streamlines data placement, transformation, and restructuring to support AI workflows.
- ✓ Support for DevOps teams through webhooks, APIs, post-run actions, and relational database integration.

Panzura Symphony Data Mover Integration—Archive Architecture





Risk & Compliance Analysis

Risk and Compliance Analysis automation allows organizations to more effectively manage regulatory requirements and mitigate risks, ensuring a more secure and compliant data environment.

Panzura Symphony enables teams to get compliant, stay compliant, and scale into every corner of their unstructured footprint with meticulous analysis and policy application, flawless data movement, and evidence-based reporting to stakeholders. With unparalleled visibility into data demographics, with detailed, sharable, and exportable reports, Symphony helps organizations navigate blind spots within their expanding data estates.

- ✓ Establish and modify policies for file and object management to meet documentation and reporting requirements
- ✓ Integration with IBM Storage Fusion Catalog (and Watson X) for handling PII and other sensitive data
- ✓ Transparent and automatic policy enforcement
- ✓ Organizational preparation for regulatory audits and adherence to data protection standards
- ✓ Route digital assets to the right location to comply with legal and contractual mandates
- ✓ Accurate and cost-effective categorization of data, making it persistent and retrievable on demand



Dynamic Movement Orchestration

Data Movement Orchestration enables efficient data workflows, allowing for the seamless transfer and management of data across different environments. It helps in optimizing storage usage and reducing associated costs.

Panzura Symphony’s Dynamic Workload Placement capabilities allow ITOps and storage teams to precisely orchestrate data placement, archive, and migration to transform the data operations framework. The platform delivers a comprehensive approach to data management and movement.

- ✓ Precise orchestration of data placement, archive, and migration
- ✓ Support for multiple storage tiers and enhanced control over data assets
- ✓ Enhance efficiency and ensure data management is done swiftly and without disruption
- ✓ Significant cost savings and reductions to overall storage footprint
- ✓ Visibility and seamless integration between file system deployments and diverse storage landscapes
- ✓ Streamline and accelerate data migrations to avoid being locked into specific cloud providers or hardware vendors

Panzura Symphony Partners with the World’s Cloud and Object Storage Leaders

Innovate, Integrate, Elevate Your Data

Panzura Symphony partners with the leading cloud services and object storage providers to offer comprehensive, vendor-certified support. Workflow automation, billing and provisioning systems can be seamlessly extended to initiate high-resolution file and object orchestration.



IBM integrates Panzura’s data movement framework with IBM Fusion, creating a massively scalable data fabric for rapidly ingesting metadata and creating an enhanced business context layer for data insight and action. IBM also integrates Symphony with Fusion to support automated policy-driven actions for handling Personally Identifiable Information (PII) and other sensitive data.



Integration of Symphony with Google Cloud Platform enables seamless migration, archiving, and tiering of data to Google Cloud Storage. It preserves metadata and security attributes, while Symphony’s REST API supports automated workflows and high-resolution data orchestration.



Our certified, turnkey native support for AWS transforms how shared customers see, use and provision storage. Transparently integrating on-premises enterprise file storage with S3, Symphony customers enjoy high flexibility and lower costs.



Symphony supports data migration, archiving, and tiering through integration with Hitachi Vantara HCP, preserving metadata and security attributes. Symphony’s REST API enables the automation of workflows and the orchestration of high-resolution data processes.



Symphony allows seamless migration and management of data to Azure Blob. It preserves all metadata and security information and supports tiered storage for efficient relocation of less frequently used data from expensive primary storage to cost-effective Azure storage.



GRAU DATA MdH leverages Symphony’s dynamic workload placement and metadata-aware capabilities. This integration allows data management and mobilization based on specific metadata attributes, datatype, and business context classification ensuring data is categorized and handled according to its characteristics.

Native Integrations and Support

Symphony offers extensive integrations and support for file system deployments and protocols, and on-premises, private, public, and hybrid cloud object storage.

File Systems and Protocols

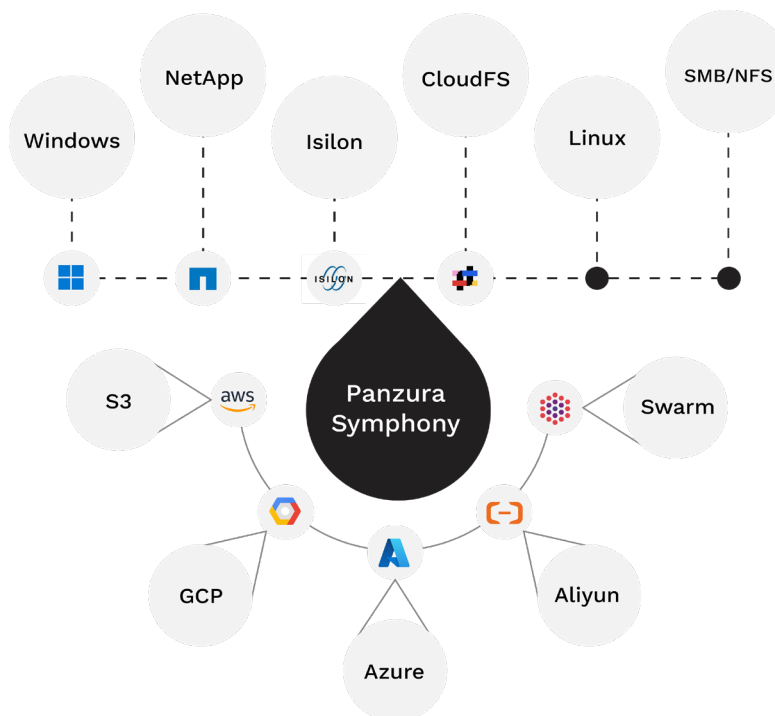
Native integrations include Microsoft Windows Server, NetApp ONTAP, Dell EMC, SMB and NFS protocols.

Cloud and Object Storage

Support includes Alibaba OSS, Amazon S3 and compatibles, Azure Blob Storage, Backblaze, DataCore Swarm, Dell EMC ECS, Google Cloud Platform, Hitachi Vantara HCP, IBM Cloud Object Storage, NetApp StorageGRID, and Wasabi Hot Cloud Storage.

Key Advanced Features

- **REST Management API:** Enables rapid integration with third-party systems.
- **Seamless Data Mobilization:** Supports conversion and mobilization of unstructured data between file and object storage while preserving metadata.
- **Event and Content Awareness:** Allows data management by user or application events, file system or object attributes, direct API calls, or content inspection.



Panzura Symphony augments the data operations capabilities of Panzura Data Services and complements the functionality of Panzura CloudFS, extending Panzura’s hybrid cloud portfolio for more complete visibility and control over all unstructured object and file data. To learn more, visit panzura.com