

Hammerspace and Scality

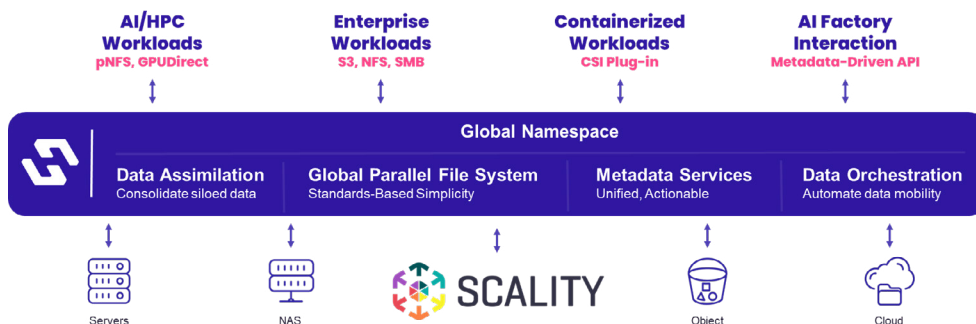


Unify, Protect, and Accelerate Access to Unstructured Data to Enable AI Anywhere

SOLUTION BRIEF

AI feeds off data - massive amounts of unstructured data that is stored in multiple locations and must be efficiently and quickly moved to GPUs as needed to enable today's business critical AI workloads.

Enterprises and Cloud Service Providers alike struggle with data that is spread across on-premises data centers, edge locations, and diverse public cloud environments. This data fragmentation creates significant hurdles for access, collaboration, governance, and ultimately, innovation. Hammerspace and Scality have partnered to enable our joint customers to unify, protect, and accelerate access to massive unstructured datasets across any environment, unlocking value by simplifying management, lowering costs, and supporting next-generation AI pipelines.



Hammerspace is a Data Platform for AI Anywhere that unifies unstructured data from any storage, location, or cloud into a single global file system. Hammerspace enables seamless, automated access and movement of data across hybrid and multi-cloud environments for high-performance computing, AI, and enterprise workflows.

Hammerspace and Scality have validated Scality's object storage solutions with the Hammerspace Data Platform enabling data stored in Scality to be dynamically tiered, replicated, or moved by Hammerspace as needed to optimize performance and availability for workloads such as AI, HPC, and analytics.

Benefits:

Unify Dispersed Data:

Consolidate unstructured data from edge, core, and cloud environments into a single, accessible global namespace.

Accelerate Workloads:

Provide high-performance access for demanding AI, HPC, and analytics workloads, ensuring GPUs and compute resources are fully utilized.

Automate Data

Management: Leverage intelligent data orchestration policies to automate data placement and movement, optimizing for performance, cost, and compliance.

Ensure Data Protection

and Resilience: Benefit from Scality's robust object storage with built-in immutability and high availability for comprehensive data protection.



How The Solution Works:

Hammerspace orchestrates data across disparate storage systems by creating a single global namespace that unifies file and object data, including data stored on Scality's RING and ARTESCA object storage products. Hammerspace uses standards-based protocols (NFS and SMB for files; S3 for objects) allowing applications and users to access the same dataset via any protocol without duplication or data copy sprawl.

Hammerspace can read/write to Scality's object storage without proprietary gateways or proxies. This seamless layer dynamically manages metadata-driven policies to move, tier, cache, or replicate data between high-speed file tiers and cost-efficient object storage pools.

Key technical features include:

- **Global Data Orchestration:** Automates transparent movement of unstructured data between Scality object storage and other storage tiers based on workload demands.
- **Multi-protocol Access:** Enables simultaneous access to data via file protocols and native S3, simplifying application integration across AI, analytics, and HPC environments.
- **Standards-Based Parallel File System Architecture:** Supports linear scaling in throughput and capacity as underlying infrastructure scales, without the complexity of proprietary clients or agents - ideal for large datasets typical in AI model training and inference.
- **Non-disruptive Integration:** Works with existing storage hardware and network infrastructure without requiring application or workflow changes.

About Hammerspace

Hammerspace is a high-performance data platform built to simplify AI infrastructure at scale. It makes all your data immediately accessible, anywhere — across on-prem and cloud environments — without copying or migrating data. Hammerspace integrates with your existing storage, networking, and applications to create a unified, high-speed data backbone for AI, accelerating every stage of the AI pipeline while eliminating data silos. Learn more at <https://hammerspace.com>.

About Scality

Scality solves organizations' biggest data storage challenges — growth, security, performance, and cost. Designed for end-to-end cyber resilience, only Scality S3 object storage with CORE5 safeguards data at every level of the system, from API to architecture. Its patented MultiScale Architecture enables limitless, independent scalability in all critical dimensions to meet the unpredictable demands of modern workloads. The world's most discerning companies depend on Scality to accelerate high-performance AI initiatives, optimize cloud deployments, and defend their data with confidence. Recognized as a leader by Gartner, Scality software is reliable, secure, and sustainable. Follow us on [LinkedIn](#). Visit www.scality.com and our [blog](#).

