VAST Data Platform

The only ZTA Compliant DoDIN APL Approved Data Platform for AI

The VAST Data Platform delivers an industry-leading unified data solution with comprehensive Zero Trust Architecture (ZTA) compliance on the Department of Defense Information Network (DoDIN) Approved Products List (APL). The platform fully satisfies both NIST SP 800-53 Rev 5 security controls and the NSA's 800-207 ZTA data pillar requirements at the Advanced level, establishing it as the premier data platform for high-security environments.

Function	Description
Data Catalog and Enterprise Data Governance	• Implements comprehensive data governance policies across the unified data Platform • Provides automated data discovery and classification • Enforces enterprise-wide policies through centralized management
Data Labeling and Access Control	• Delivers automated data tagging and labeling capabilities via S3 triggers and functions • Implements machine-enforceable data access controls through the hybrid RBAC-ABAC model • Ensures continuous analysis for proper data tagging with automated remediation
Data Monitoring and Protection	• Provides comprehensive database and file monitoring across all protected data • Integrates logs and analytics from all data monitoring systems • Enables real-time detection and alerting on anomalous access patterns • Implements data security controls including encryption and rights management • Deploys advanced DLP capabilities throughout the architecture, not just at boundaries
Protocol-Agnostic Security and Tenant Isolation	• Provides mixed protocol access with consistent RBAC-ABAC policy enforcement across all access methods • Implements Multi-Category Security (MCS) from Security-Enhanced Linux (NFS 4.2 SELinux label) • Provides secure tenancy features that create isolated environments for different groups • Utilizes View Policies to define access permissions, protocols, and security settings for tenancy separation • Enforces resource quotas to prevent unexpected system capacity resource exhaustion
Data Resilience, Isolation, and Protection	• Implements VAST's locally-decodable, fail-in-place erasure-coding with N+4 data protection • Provides rack-scale resilience with no single point of failure in the data path • Supports multiple backup mechanisms including asynchronous replication, backup to S3, and global snapshot clones • Provides Crypto segmentation of data leveraging unique data encryption keys between directories allowing for crypto erase at the directory level (spillage mitigation) • Integrates VAST Catalog for comprehensive metadata indexing, search, and audit integration

The VAST Data Element Store

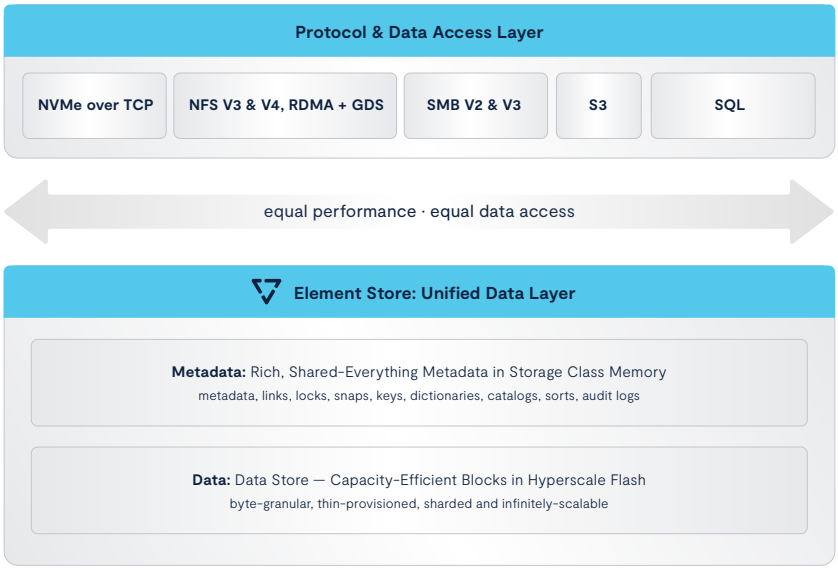
Our Multi-Protocol Data Structures

Standard Protocols. Open Access to Data.

Multi-Protocol by Design.

Native High Performance.

Developed in House for the Best Permissions and Performance Experience



Unified Data Platform

The VAST Data Platform provides a comprehensive data experience by integrating traditionally separate services:

- Consolidates block storage, file storage, object storage, and database services into a single platform
- Creates a unified global namespace that spans edge, core, and cloud environments
- Supports multiple protocols simultaneously (NFS, SMB, S3, NFS over RDMA, GPUDirect, SQL, and NVMe over TCP) within a single architecture
- Enables seamless data access without complex migrations or duplications

The platform's revolutionary Disaggregated, Shared-Everything (DASE) architecture delivers cloud-like elasticity with superior integration capabilities:

- Decouples compute and storage resources for independent scaling
- Eliminates east-west traffic between nodes for parallel operations
- Consolidates diverse data types under a unified namespace
- Provides flexibility without traditional infrastructure constraints