

BrickStor Security Platform for Lustre with Multilevel Security

Secure Parallel File System for High-Performance Computing & Mission-Critical Workloads.

Unlock petabyte-scale performance without compromising on zero-trust security

Solution Overview

BrickStor Security Platform for Lustre (BrickStor SP-L) combines RackTop's award-winning cyberstorage platform with the world's most widely deployed open-source parallel file system. The result is a single, enterprise-ready solution that delivers terabit-class throughput, self-healing architecture with end-to-end data integrity, and policy-based multilevel security (MLS), all in one easy-to-manage package. Designed by U.S. Intelligence Community veterans, BrickStor SP enforces data-centric zero-trust principles and FIPS encryption while meeting the extreme performance demands of artificial intelligence and machine learning (AI/ML), high-performance computing (HPC), and national security missions.

Key Benefits

Terabit-Class Performance with Inline Security – Scale beyond a terabit of aggregate read/write while keeping encryption and MLS controls fully enabled.

MLS Done Right – Mandatory access controls and data labeling isolate and protect data across classification levels and programs in a single namespace.

STIG Compliant – Delivered with a compliant and hardened operating system (OS) ready for a rapid Authorization to Operate (ATO).

Lustre Simplified – One-click deployment, rolling upgrades, and an intuitive HTML5 GUI reduce Lustre administration from hours to minutes.

Encryption and Key Management – Built-in key management enables simplified FIPS 140-3 AES-256 encryption.

Maximum Efficiency – Leading solution in maximizing density for storage size, weight, and power (SWaP).

Centralized Management with HUB – Manage every node through a single pane-of-glass web interface.

Secure Supply Chain – Leverage a secure software and hardware supply chain with TAA-compliant equipment.

Data Care Advanced Support – Top Secret/Sensitive Compartmented Information (TS/SCI) cleared subject matter experts (SMEs) implement, manage, monitor, and upgrade your Lustre environment while acting as an extension of your team.

Advanced Maintenance and Support Options

Offering	Description
TS/SCI-Cleared On-Site Support	TS/SCI-cleared engineers available onsite for classified environments, ensuring mission-critical systems remain secure and compliant.
Data Care Advanced Support	Proactive 24x7 U.S.-based assistance with embedded SMEs who implement, manage, monitor, and upgrade your Lustre environment — acting as an extension of your team and keeping clusters mission-ready and optimized.

Accreditation and Approval to Operate (ATO)

BrickStor SP-L is field-proven in fully accredited MLS deployments. Deploying it in your HPC or supercomputing environment streamlines the ATO process and maintains compliance as standards evolve. Supported by RackTop’s TS/SCI-cleared data care team, you are guided from initial design through final accreditation and beyond.

About RackTop Systems

RackTop Systems pioneered cyberstorage — data storage with built-in security, compliance, and active defense. Trusted by defense, intelligence, financial, healthcare, and Fortune 500 organizations, RackTop protects the world’s most sensitive data wherever it lives.

Contact us | 844-722-5786 | sales@racktopsystems.com