

Solution Brief

RackTop High Speed Data Recorder for CSfC

RackTop has engineered the BrickStor Security Platform (SP), a high-speed storage solution, for the NSA Commercial Solutions for Classified (CSfC) Data-at-Rest (DAR) 5.0 Certification.

The Design

BrickStor SP is a cost-effective solution with flexible form factors and scalable capacities for projects with high-speed data recorder requirements. The solution supports high speed ethernet connectivity with security.

With two layers of data at rest encryption, the design is optimized for performance:

- The outer layer of encryption leverages NVMe self-encrypting drives at line rate
- The inner layer uses AES-NI accelerated AES-256 encryption

Deployment

The solution is deployable in a ruggedized form factor for tactical and edge deployments as well as a standard data center rack server. Ruggedized form factors can be designed to meet rigorous environmental and military specifications.

Workloads and Connectivity

The high-speed data recorder supports high throughput and low latency workloads leveraging the high-speed network connectivity available. With support for multiple 100Gbe network interfaces and RDMA connectivity, clients can record and read at near line rate. The data recorder offers full NAS functionality. Use standard protocols to play back files or store any file format on the high-speed data recorder.

Scale capacity with disk expansion shelves for SSDs or HDDs that can be used for various workloads. Additional disk capacity can be used to store recordings and to securely transport large datasets and recordings from location to location instead of over the network.

Operability in High Threat Level Environments

The high-speed data recorder is exportable and ready to use with partners and allies on critical missions. The use of commercial encryption technologies makes it easy to securely cross borders and operate internationally.

BrickStor SP is simple to deploy and easy to maintain. With a clear, graphical user interface and a self-paced user manual, users can become proficient in the secure operation of the high-speed data recorder in 15-minutes or less.

About CSfC

NSA's CSfC Program was established to enable commercial products to be used in layered solutions protecting classified national security system data. With the DAR 5.0 solution, the system and data are considered unclassified when powered off and can protect up to Top Secret data.

About RackTop

RackTop was founded by US Intelligence Community and DoD veterans who are trained in offensive cyber operations and have invented technologies to thwart and stop insider threats, advanced persistent threats, and the next evolution of data-oriented attacks.

RackTop software is designed and developed 100% in the USA by US Citizens. RackTop has supported US federal classified and unclassified networks for over a decade. RackTop provides 24/7/365 US support with cleared TS/SCI engineers. Through RackTop's data care services, customers can benefit from advanced support to data availability SLAs, data migration, and incident response.

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