

# Data Management & Storage Solutions

BrickStor SP is a software defined network attached storage solution with embedded security and compliance. Its design is informed by years of inside experience to meet the distinct needs of federal and municipal governments. BrickStor SP is a foundational piece of a Zero Trust architecture to manage and protect government data.

## Features

### SECURE BY DEFAULT

BrickStor SP simplicity makes it the most valuable tool to protect data. It includes a simple to use interface that eliminates the need for advanced data storage or cybersecurity subject matter expertise. System administrators are alerted to misconfigurations and provided with fix actions ready to be taken with a single click.

### DATA PROTECTION

BrickStor SP includes advanced space efficient data protection features including snapshots and WAN efficient replication. But, BrickStor SP goes beyond traditional data protection features and includes user behavior analysis and response to stop insider threats and other cyberattacks including ransomware.

### ENCRYPTION

BrickStor SP supports two levels of FIPS AES-256 data encryption for data at rest and in flight. The integrated key management service can store keys in a secure local database, on a removable disk, or connect to a KMIP compliant enterprise key manager.

### CYBERCONVERGED™

Data security features are embedded into the storage operating system to prevent the adversary from circumventing the security protections.

### PERFORMANCE

BrickStor SP physical appliances are available in all flash and hybrid configurations delivering security and compliance without sacrificing performance.

### SECURE SUPPLY CHAIN

RackTop offers the only BAA and TAA compliant storage array. RackTop supplies hardware and software updates in a manner that safeguards against malicious firmware, software and hardware implants.

### COMPLIANCE

Information systems accreditation is an important but sometimes tedious aspect of commissioning any system within the government. RackTop makes it easier and faster to achieve and maintain approval to operate (ATO) than any other system with BrickStor SP's built in compliance reports.

### FLEXIBLE DEPLOYMENT OPTIONS

Organizations can deploy BrickStor SP on bare metal, in a virtual machine or a public cloud. Regardless of form factor you can manage each instance from a single UI with complete interoperability.

# Highlighted Use Cases

## SENSITIVE FILE SHARES

Government organizations are responsible for handling highly sensitive data ranging from PII to classified information. BrickStor's data protection policies ensure critical data is versioned and replicated in accordance with policy and regulations. Data can easily be restored after a cyber-attack or natural disaster. Security features within the operating system protect against cyber threats, unauthorized use, and insider threats. BrickStor SP also offers FIPS 140-2 certified encryption without impacting performance.

## VIDEO SURVEILLANCE

BrickStor SP is configured to handle the ingest and simultaneous playback of multiple concurrent high definition video streams. BrickStor SP's hybrid architecture and caching with read ahead prefetching enables BrickStor SP to leverage drives that have lower power consumption in very dense multi-petabyte arrays.

## VIRTUAL INFRASTRUCTURE

Government organizations have been successfully consolidating and virtualizing their infrastructures. Virtualized infrastructure requires storage with the ability to handle random IO with low latency. BrickStor SP delivers performance, scalability, and ease of management with the lowest total cost of ownership through its hybrid architecture, data protection policies, and software defined architecture.

## ANALYSIS AND SIMULATION

Organizations use large data lakes of unstructured data to perform complex modeling and decision making. BrickStor SP is a safe facility to store and protect the sensitive data used in these analyses. BrickStor SP's include data management features that provide better visibility into where data is located, if it is being used, when the last time it was accessed and who accessed the data. These data management features combined with high performance data storage enable organization to succeed even on a tight budget.

## ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

In the last decade there has been an explosion of organizations using AI/ML to try and improve their operations. AI/ML often relies on extreme volumes of data and it is often important to retain the data for long periods of time in order to retrain the AI models. This additive approach to data combined with the need for fast access to the data is why organization choose BrickStor SP. BrickStor SP can move data between the tactical edge or IOT device and the cloud. This is often an important part of the AI/ML workflow as organizations leverage the cloud ecosystem and a hybrid or multi-cloud architecture.