

## SOLUTION BRIEF

# Modern Data Protection for Government

Protect your agency's data without making compromises.

Data powers government operations and the delivery of citizen services in an increasingly digital world. Federal, state, and local leaders are focused like never before on protecting the integrity and availability of their data stores. It's a tall order, given the complexity of modern data centers, along with application and device proliferation. Government organizations need a data protection strategy and solutions that deliver more than just an insurance policy against potential threats. They also need lightning-fast data restore capabilities. Solutions from Pure Storage deliver modern data protection for modern governments.

## Data Protection Pain Across Government Agencies

Data fuels government operations across a wide range of services like national security, public safety, law enforcement, healthcare, citizen services, public transportation, tax administration, and critical infrastructure. Any disruption to data access can have rippling—and sometimes dangerous—consequences. As threats evolve, so do requirements for data protection. Government agencies face multiple data protection pain points:

- **It's Complex:** Storage array protection features like synchronous replication are legendary for their complexity and fragility. Backup environments become a mess of too many appliances and management silos.
- **It's Slow:** Backups take too long. Recovering critical databases or large file volumes can take hours, days, or longer. Agencies and citizens simply cannot afford that much downtime.
- **It's Cloudless:** Legacy data protection lacks easy automation or integration with cloud services. Data reuse is cumbersome at best.
- **It's Costly:** Expenses for extra licensing for data protection features, repeated forklift upgrades and storage re-buys, and downtime and data migrations during upgrades all add up. Why is this acceptable? It shouldn't be.



### Rapid Recovery

Don't wait for critical systems to get back online. Pure speeds data recovery to get you up and running fast.



### Simplified Automation

A unified management framework and storage designed with simplicity in mind make data protection easier than ever.



### Cloud Ready

Native cloud integration plus cloud-like management enables easy automation and data reuse.

Some or all these pain points are likely on your mind. It's time to get modern.

## Modern Data Protection for Government

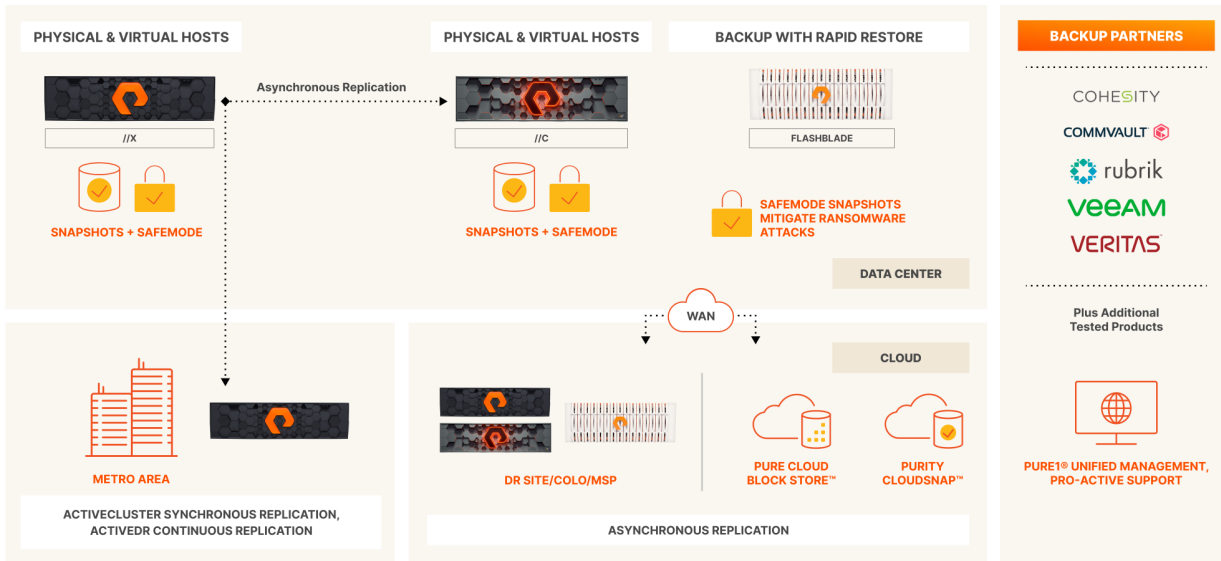


Figure 1. Pure Storage provides end-to-end protection across the data center, remote sites, and the cloud. Using a wide range of technologies based on all-flash storage, Pure delivers data protection that is simple, fast, and efficient and lets you easily use your valuable backup data for other purposes.

## Modern Data Protection for Modern Governments

Legacy storage arrays and backup appliances can't meet the demands of modern and increasingly digital government organizations. Vendors may try bolting on new features to outdated product architectures, but they only make incremental improvements that fall short of the goal. At Pure, we've redesigned the storage array from the ground up with a sharp eye on data protection. And it shows.

Data protection is a big topic, but modern data protection from Pure Storage can be summed up in four critical value areas.

### Simplified Automation

The unified [Pure1](#)® interface enables you to manage all Pure products. Pure1 also automates many management tasks, delivers self-optimization, and even provides predictive support. Data reduction and encryption are always on. And Pure products are famous for how easy they are to deploy. To take one example, synchronous data replication on legacy arrays can take weeks to set up, and then remains fragile and difficult to modify. Compare that to [ActiveCluster](#)™ synchronous replication with Pure [FlashArray](#)™ storage, which can take less than 10 minutes to set up. It sounds impossible if you're used to legacy arrays, but we can show you how.

### Rapid Recovery

The most critical part of backup is recovery. Government agencies perform essential work and can't afford the extended downtime associated with legacy backup and restore capabilities. Rapid recovery ensures that agencies can protect sensitive data and avoid major organizational and service delivery disruptions. Pure Storage snapshots make recovery nearly instant, no matter the volume size. For traditional backups, Pure Storage [FlashBlade//S](#)® provides incredible restore speeds of as much as 270TB per hour. Legacy, purpose-built backup appliances won't help you meet your data-protection SLAs. FlashBlade//S delivers petabyte-scale Rapid Restore for production and test/dev workloads at three times the performance to meet the most

## SOLUTION BRIEF

demanding recovery SLAs. You don't even have to change your backup software. Just replace your current backup target with FlashBlade//S for [turbocharged restores](#).

In addition, Pure helps mitigate [ransomware](#) attacks by securing critical data from being altered or destroyed. Available with both FlashBlade and FlashArray systems, Pure SafeMode™ Snapshots protect backup data and metadata by creating a secure copy. Ransomware can't eradicate, modify, or encrypt SafeMode snapshots, even if admin credentials are compromised. No government agency is immune to ransomware, and attacks are on the rise. When systems go down, agencies need to be able to recover data at scale, as quickly as possible. With just a few clicks, you can restore critical data quickly and at scale.

Pure enables application business continuity with both ActiveCluster replication for campus-wide and metro-area distances and [ActiveDR](#)™ continuous replication that provides a near-zero recovery point objective (RPO) across virtually any distance.

### Cloud Ready

[Pure Cloud Block Store](#)™ delivers seamless data mobility, data protection, and a consistent experience. It runs the same [Purity](#) storage operating system, so all the workflows and scripts that you run in the data center function identically in the cloud, making application lift-and-shift easy. Pure Cloud Block Store simplifies DevTest, reporting, and other operations that can benefit from scalable cloud compute resources. [Purity CloudSnap](#)™ provides a simple mechanism for moving storage snapshots into the public cloud. Since Pure Storage snapshots are portable, you can recover them to any Pure Storage array, not just the array where they originated.

Cloud-ready is about agility and ease of use. Pure makes it easy to spin up data copies for business-value uses such as DevTest, analytics, and reporting. Multiple methods are available, including the REST APIs for FlashArray, FlashBlade, and Pure1, along with the SDKs (Python, PowerShell, Go, Ruby) and Infrastructure-as-Code libraries (Ansible, SaltStack, Puppet) built on top of them.

### Uncomplicate Storage with Consumption-based Storage as a Service (STaaS)

Budgets across federal, state, and local agencies are tight, and agencies are focused on making the right investments that deliver short-term and long-term value. Modern data protection from Pure Storage includes modernized, cloud-like acquisition models. You can purchase Pure Storage solutions by using traditional capital expenditures, but they are also available via subscription. The Pure Storage [Evergreen](#)® portfolio strengthens data protection. Specifically, Pure Storage [Evergreen//One](#)™ is an enterprise-class storage as a service (STaaS) subscription that flexes and adapts to business needs while providing foundational block, file, and object services, with a [ransomware guarantee](#) for lowering risk. The industry-changing [Evergreen Storage](#)™ program from Pure Storage keeps your technology up-to-date seamlessly, with no disruptive upgrades.

### Making Data Protection Modern

The threat and costs of a data breach can be devastating. Pure Storage provides everything governments need for a truly modern data protection experience—one that is fast, simple, and cost-effective. This enables agencies to safeguard data and ensure the continuity of citizen services and government operations. Whether you target a few critical problem areas to start or dive in for the full experience, Pure Storage can help make your data protection experience what it needs to be to make your agency more secure and successful and to maintain an optimal user experience.

## Additional Resources

- Find out more about [modern data protection solutions](#).
- Get a deeper understanding of how FlashBlade can help with [rapid restore](#) of data.
- Learn more about protecting your agency from [ransomware](#).
- Speed time to benefit and accelerate your Modern Data Experience journey with help from [Pure Professional Services](#).

[purestorage.com](https://purestorage.com)

800.379.PURE

