

SOLUTION BRIEF

Pure Storage Solutions for Government

Modern data storage and management solutions for agency digital transformation

Data powers government operations and the delivery of citizen services in an increasingly digital world. When government agencies can leverage their massive volumes of data, they can provide better insight, make more timely and relevant decisions, craft better policies, and offer better citizen services. Modern data storage and management systems help you use more of your data while reducing the complexity and expense of managing the infrastructure behind it, providing the springboard for a modern, intelligence-driven government.

The traditional storage lifecycle has many manual processes that add up to cost, complexity, and time delays that inhibit agencies from maximizing the potential of their data. As a result, agencies must spend time focusing on the ins and outs of data storage, rather than on their core mission. Many agencies face limitations that hinder their digital transformation with storage that is:

- **Overly complex:** Causing issues with availability, risk, and resources management
- **Too rigid:** Data infrastructure that's at odds with as-a-service consumption models, lacking agility and flexibility
- **Uninspiring:** Solutions aren't innovative enough to support the advanced data activities required for agencies to transform their operations

These factors are disruptive to agencies and cost them money. They also require additional resources to manage all the complexity. At scale, the situation becomes inefficient, fraught with risk of error, and expensive. Not only do agencies have to manage a complex and rigid system, but this can hinder the most important part of their operations—innovating for citizens. There is a better, easier way of buying and using storage.



Intuitive Experience

- Ease of deployment means less disruption.
- Simplicity in design and delivery.
- Agile and flexible as data needs change.



Evergreen® by Nature

- The most choice in how you consume, deploy, and manage storage.
- Sustainable solutions save space, consume less power, and ensure hardware never reaches end-of-life.



Architected For Innovators

- Container-ready to support modern app development.
- Data protection that encrypts and improves the ease and speed of recovery after a catastrophe.

Welcome to Modern Data Storage for Government Agencies

When agencies can get more value from their data, it becomes a strategic asset and powers innovation. Pure Storage is the partner governments need to evolve their data infrastructure. Pure Storage enables a next-generation, API-driven operating model to support the complex, dynamic applications that will keep agencies innovating for years to come. Data storage is a diverse topic that spans a range of disciplines and discussions. We've broken it down into six critical areas:

Modern AI Data Architecture for Government Agencies

Artificial intelligence (AI) and analytics are the driving force behind many of the fastest expanding government use cases. With native support for both file and object (S3) workloads, Pure Storage [FlashBlade//S™](#) is the “engine” for processing data in AI-driven use cases. The scale-out metadata architecture in FlashBlade//S handles tens of billions of files and objects with maximum performance. It's a platform built to consolidate data silos and eliminate serial bottlenecks so you can focus on what matters most: delivering insights to the agency.

AIRI//S™ is a complete [AI-ready infrastructure](#), architected by Pure Storage and NVIDIA to extend the power of NVIDIA DGX A100 systems. AIRI offers agencies a simple and fast infrastructure to meet their AI demands at any scale.

FlashArray//C™ is the ideal [high-capacity all-flash array](#) for handling the massive data volumes required for AI projects.

The All-flash Unstructured Data Repository

Economical at scale, [FlashBlade//E™](#) offers a better way to manage data growth efficiently, simply, and sustainably—delivering a best-in-class user experience and operating at the lowest, long-term cost. It provides the environmental, ease of use, and reliability benefits of all-flash storage for unstructured data workloads, but at a cost competitive to disk-based storage solutions.

Environmental aspects and energy use are the number one concern for organizations when it comes to their sustainability initiatives. The FlashBlade//E advantage offers:

- Less than ~ 1W per TB
- Up to 1/5 the power
- Up to 85% less e-waste
- Up to 60% lower operational cost
- Up to 10-20x the reliability
- Up to 1/5 the space

High-performance, Low-latency Data Access

Government agencies are dealing with more data than ever before. They need high performance and highly available storage, paired with intelligent management, to succeed at this new level of scale. Agencies can achieve the responsiveness, capacity, and speed they need with Pure Storage.

FlashArray//XL™: The answer for your [most demanding workloads](#). Designed for performance at scale, it delivers latency as low as 150µs and throughput as high as 36GB/sec. This is performance fit for massive database workloads such as



[SAP/SAP HANA](#) or [Oracle](#), or tens of thousands of virtual machines (VMs). Industry-leading dedupe and compression algorithms, combined with exceptional density, enable massive space, power, and cooling savings.

FlashArray//X™: The all-NVMe architecture of FlashArray//X provides [low-latency storage](#) suitable for most Tier 0 and Tier 1 workloads. Proven 99.9999% availability, including maintenance updates, keeps your vital services running.

FlashArray//C™: For less performance-sensitive workloads, the all-QLC [FlashArray//C](#) delivers cost economics that eliminate the need for hard disk drives and hybrid arrays. Experience more speed and lower latencies plus significant power savings compared to disk-based systems.

Securing and Protecting Agency Data

Government agencies 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.

With Pure Storage, agencies can be confident that their data is stored securely and with high availability without sacrificing efficiency. All-flash arrays from Pure Storage have achieved certification by the National Information Assurance Partnership (NIAP)—the U.S. component of the 25-nation Common Criteria consortium—providing the highest security standards.

A crucial part of securing data is the built-in cybersecurity measures found within storage infrastructure. Pure Storage all-flash arrays come with several built-in features designed to keep data secure, including:

- End-to-end data protection (in-flight and at rest)
- Built-in ransomware protection with [SafeMode™](#) snapshots
- Petabyte-scale recovery up to three-times faster than competitive offerings, with Rapid Restore

Pure Storage [Purity](#) incorporates software and hardware measures to meet the highest security standards, ensuring the safety of data. Meeting the ultra-high FIPS 140-2 security standard, Purity provides validated always-on encryption.

Simple Design, Deployment, and Use

Modernizing your infrastructure shouldn't stop at storage. A modern data architecture also needs smart storage management. Pure helps you extract maximum value from your data while reducing complexity and expense.

Pure 1®: Storage management from [Pure1](#) delivers critical information about the health and functionality of your entire stack, right down to each VM. The Pure1 platform provides cloud-based management and effortless predictive support with full-stack analytics and the AI-driven power of [Pure1 Meta®](#).

Pure Cloud Block Store™: Run your applications seamlessly across your on-premises, hybrid-cloud, and cloud environments with consistent enterprise data services, resiliency, and APIs. [Pure Cloud Block Store](#) is a public-cloud instance of FlashArray™, available in [AWS](#) and [Microsoft Azure](#), that uses the same software stack and is operationally identical to your data center FlashArray. This enables cloud use cases such as easy workload migration, disaster recovery, and DevTest with elastic cloud resources.



Continuous Innovation and Optimization

The government landscape is constantly evolving. A modern storage solution should meet the needs of today and tomorrow, and with Pure Storage, agencies benefit from a data storage solution that gets better over time.

Simplify your storage management lifecycle and lower TCO by more than 50% compared to traditional forklift upgrades with Evergreen™. The [Evergreen® Storage](#) subscription model eliminates expensive refreshes and offers seamless, rapid upgrades and expansion, without disruption. Get modern storage with the freedom to upgrade, expand, and continuously innovate. All software features are included with no additional license fees.

Storage buying patterns are also changing. Since projects can spin up or be cancelled with little notice, it's very difficult to predict storage consumption year to year. The result is either over-buying and wasting budgets, or under-buying and facing resource constraints that delay projects. With [Evergreen//One™](#) you get the storage you need when you need it. Evergreen//One bills on actual consumption so you can pay as you go, and Pure Storage handles the equipment. Block, file, object, and Kubernetes storage services can be deployed to meet your infrastructure needs.

Performance, Simplicity, and Efficiency for Government Agencies

With innovative, cloud-ready solutions and the best user experience in technology, Pure Storage is the government's partner in transforming data into powerful outcomes whether deploying traditional workloads, modern applications, containers, or more. Pure Storage solutions deliver cutting-edge capabilities without complexity. These solutions enable agencies to deliver faster transactions and make more informed decisions, with non-disruptive upgrades and capacity expansions as your organization evolves. And simplicity is at the heart of design and delivery—from products to services, implementation, upgrades, and support.

Pure Storage believes it can make a significant impact in reducing data center emissions worldwide through its environmental sustainability efforts, including designing products and solutions that enable customers to reduce their carbon and energy footprint.

Uncomplicate your data storage, forever with Pure Storage.

Additional Resources

- Find out more about how to get increased value from your data with [real-time analytics and AI](#).
- Learn about the [Top Five Reasons to Consider an All-flash Unstructured Data Repository](#).
- Read about how Pure Storage sets organizations [free from private and public cloud data silos](#).
- Learn how to [tackle unstructured data growth](#) forever.
- Learn how Pure helps support your [environmental and sustainability](#) mission.

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