

Intelligent Data Management and Security for the Public Sector



Key Benefits

- Software defined hybrid cloud flexibility
- Unified file and object services
- Massive scale
- Streamlined compliance
- Enterprise security & resiliency
- Immutable data protection
- Powerful storage efficiency
- Reduced cost of ownership
- Simple singular interface

Situation

IT modernization is not easy for any organization that was not born in the cloud. This is especially true for public sector organizations and agencies providing public goods and governmental services, such as the military, law enforcement, infrastructure, public transit, public education, and public health agencies. For such entities, the process of managing or eliminating aging software and legacy hardware solutions while satisfying numerous data management mandates is challenging. It requires a willingness to spearhead consolidation efforts and embrace modern, automated, hybrid cloud data management and security solutions. Meanwhile, the costs of storing, managing, and scaling data — along with ensuring security, high availability and business continuity — continue to rise.

The public sector is drowning in data essential to pursuing organizational missions, and to serving citizens. Yet, few in this market can identify where all their unstructured data resides, or accurately quantify just how much data they have. Data assessments often underestimate the volume of data under management due to data sprawl across multiple on-premises silos and distributed environments in the cloud. Realizing data driven insights, and the benefits delivered by decentralized data, to better serve customers and citizens is impossible because the data is not easily accessible.

Siloed data also creates a wider attack surface, leaving sensitive data vulnerable to a host of cyber- and ransomware threats. More than 50 percent of federal IT managers say that a security breach is a significant possibility due to complexity and lack of visibility. Yet many government agencies still cling to traditional security methods that were not designed for sophisticated and fast-evolving threats - or for protecting data in the cloud

Why Cohesity SmartFiles for the Public Sector?

Cohesity understands the challenges faced by the public sector. Cohesity SmartFiles is a modern unstructured data management and security solution that uniquely solves multiple challenges based on three key values demanded by public sector customers: intelligent data management, hybrid cloud flexibility, and active threat defense.

Cohesity SmartFiles is a software-defined, data-centric, unified file and object solution for the hybrid cloud. SmartFiles empowers public sector entities to bring exceptional intelligence to the most critical file and object data with integrated applications for compliance, security, and analytics. It simplifies long-term unstructured data retention for cold and active archives, and provides cost-effective, secure, and immutable storage for your existing enterprise backup software. As it is specifically architected with industry standard NFS, SMB, and S3 interfaces, it can be used without disruption to your current environment. SmartFiles modernizes and simplifies data and application management, resiliency, privacy, and control by providing one platform for consolidating and securing archival data and backup datasets. Public sector customers are uniquely empowered to efficiently manage data at scale for governance and compliance, with policy-based controls enabling automatic data placement on the most appropriate or economical tiers or clouds. SmartFiles also delivers as much as 96x or higher space efficiency for dramatic cost savings.

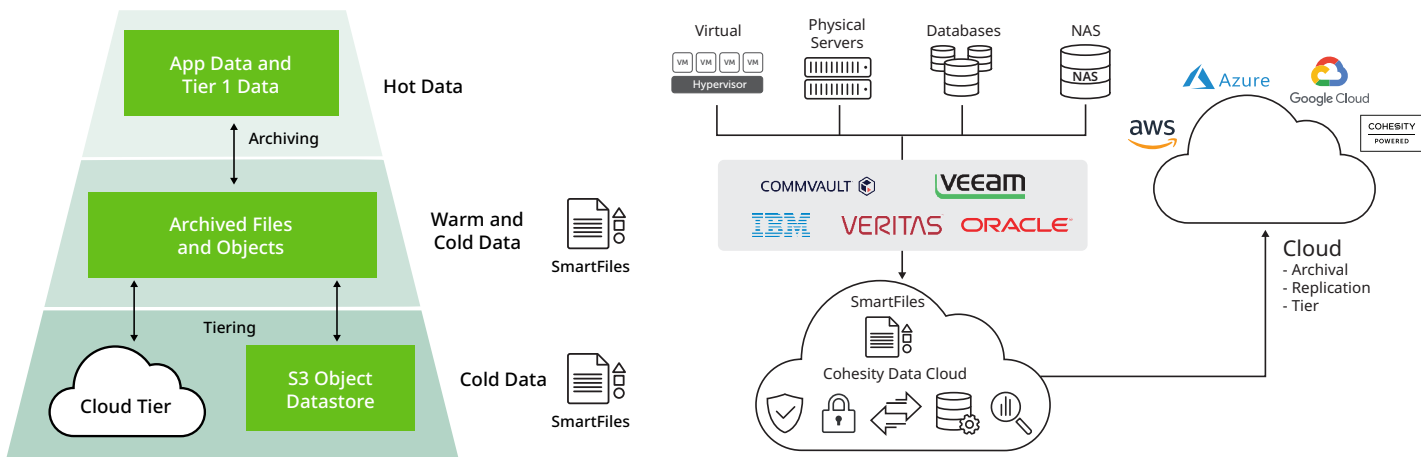


Figure 1: Modern, scalable archive and tiering, and immutable backup target

Hybrid Cloud Flexibility

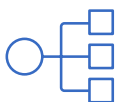
Manage Data Growth. The majority of public sector data is unstructured, accumulating rapidly from multiple sources, such as military, weather, public safety, transportation, web site, social media data, and other sources. Harnessing that data is at best a complex endeavor that requires secure management to satisfy security and privacy directives. Furthermore, the pandemic has amplified the need for the public sector to rapidly scale IT infrastructure and application systems and respond to unprecedented administrative and public demands. Capital expenditures for on-premises data management and security solutions are quickly exhausting IT budgets. Public cloud strategies are therefore being evaluated to rapidly modernize IT, improve efficiencies, and bolster data security.

SmartFiles provides hybrid cloud flexibility for cost-effective capacity and data management that can grow seamlessly to handle billions of files. SmartFiles gives you the ability to scale compute and storage nodes independently. It supports heterogeneous disk and all-flash platforms, which allow you to seamlessly deploy new hardware platforms along with older ones. There’s no need for forklift upgrades, and you can also retire end-of-life platforms without needing expensive data migrations. SmartFiles is also a multicloud solution. You can tier, archive or replicate data across one or more clouds, and you can use SmartFiles as a target for cloud applications by using its native S3 interface.

Intelligent Data Management

Eliminate Expensive Silos and Simplify Management. The fast and streamlined data management that the public sector strives to achieve represents a significant opportunity to eliminate administrative inefficiencies and save public funds. However, progress is often impeded by data that is siloed in legacy systems and in product- or service-specific applications. Holistic data management often requires multiple third-party application integrations. Moving these systems and workloads to the public cloud can result in more complexity and costs than before. Consequently, many public sector customers are not able to capitalize on the value their data can deliver.

SmartFiles provides a better way to consolidate, correlate, and analyze data across all of these different sources. Using its native SMB, NFS and S3 APIs, SmartFiles is able to consolidate archiving, compliance, and backup datasets, as well as file data, S3 application data, and data from modern IoT and analytics environments. You can then apply security and data protection policies to meet compliance requirements, create policies to automate data movement across the datacenter and public clouds, and gain cost efficiencies through deduplication, compression and a built-in search engine.



- Content Management**
- Secure file repository
 - Scalable libraries
 - File & Object



- Splunk Warm & Cold Buckets**
- Cost-effective cold archiving
 - On-premises, cloud or both
 - Frozen data to cloud



- Corporate Audio & Video**
- Corporate communication
 - In-house productions
 - Education and training



- Digital Archives**
- Digital documents
 - Audio and video files
 - Active & passive archives
 - Backup datasets

Reduce Cost of Ownership. SmartFiles can dramatically reduce hardware storage requirements through data deduplication, compression, small file optimization, and dedupe across data center volumes. Storage costs and performance can be further optimized by intelligently moving data to the most appropriate locations or clouds.

- **Global data deduplication** – Based on advanced sliding window variable dedupe technology. This means that duplicate data that has been slightly changed is still deduped—which is beyond traditional dedupe capabilities.
- **Compression** – Zstandard compression algorithm for high compression ratios.
- **Small file optimization** – Eliminate the small file amplification penalty common to traditional NAS file systems. Small files are stored efficiently and without the need for triple-mirroring inefficiency. Put simply, 50TB of small files under SmartFiles consumes about 50TB of capacity.

Active Threat Defense

Governments are providing more digital services to citizens than ever before and are now among the top ransomware targets. Considering budgetary and resource constraints, recovering quickly once data has been compromised may be difficult and time consuming. Meanwhile, phishing, ransomware, wiper malware and other advanced persistent threats are demonstrating higher levels of planning and sophistication, while attack cycles are occurring continuously. Data loss or unauthorized access can lead to catastrophic outages for public services, eroding public confidence, and significant costs.

SmartFiles provides active threat defense to fortify datasets with unlimited immutable snapshots and support for WORM. It also includes access control settings and threat detection and recovery capabilities that are based on a variety of features, including vulnerability scanning. Data durability is provided through always-on background processes that check for corruption due to memory, disk, or network errors. Currently, SmartFiles compliance has been validated via SEC, FIPS, Common Criteria and PCI-DSS certifications.

Defeat Cyber Threats and Ransomware. Cybersecurity for unstructured data is imperative for the public sector. SmartFiles' integrated cybersecurity makes security easy to deploy and manage. It's a multi-layered security approach to prevent, detect, and analyze threats, and reduce downtime with rapid recovery:

- **Prevent** – Immutable file system, software encryption, over the wire encryption, multi-factor and quorum authentication, DataLock (WORM), and adherence to compliance standards.
- **Detect** – Anti-virus: Detect infected files and prevent files from being compromised.
- **Analyze** – Observe user and behavior analytics for security and compliance reasons.

Do More with Data

Make Your Data Productive. Expand the value of your unstructured data with a comprehensive Marketplace app ecosystem of integrated third-party applications. These powerful apps run directly on data in-place to: mitigate risk from cyber threats and ransomware, accelerate content and metadata search, streamline compliance and eDiscovery, detect anomalies, develop actionable insights with powerful analytics, and more.

The Smart Choice

Public sector organizations and agencies choose Cohesity SmartFiles because it is the smartest way to optimize cost, scale and efficiency for your unstructured data. It is a simple, singular solution that lets you manage, secure, and do more with your data with next-level software-defined file and object services for the hybrid cloud.

Learn more at [Cohesity](#).

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