

# US Federal Agencies COOP Solution Brief

## Continuity of Operations and Data Availability

### Executive Summary

Within Federal Government agencies, the need to keep the mission running is a paramount concern. Agencies such as the Department of Defense, DHS, FEMA and the FAA must guarantee Continuity of Operations (COOP) in the event of a disaster. This need for COOP also drives requirements for data availability across large and geographically dispersed locations. Agencies must have data access when and wherever needed—available at a physical location or in the cloud. Meeting these challenges can be radically simplified using the unique architecture of Actifio's Virtual Data Management (VDM) Platform to manage and virtualize data.

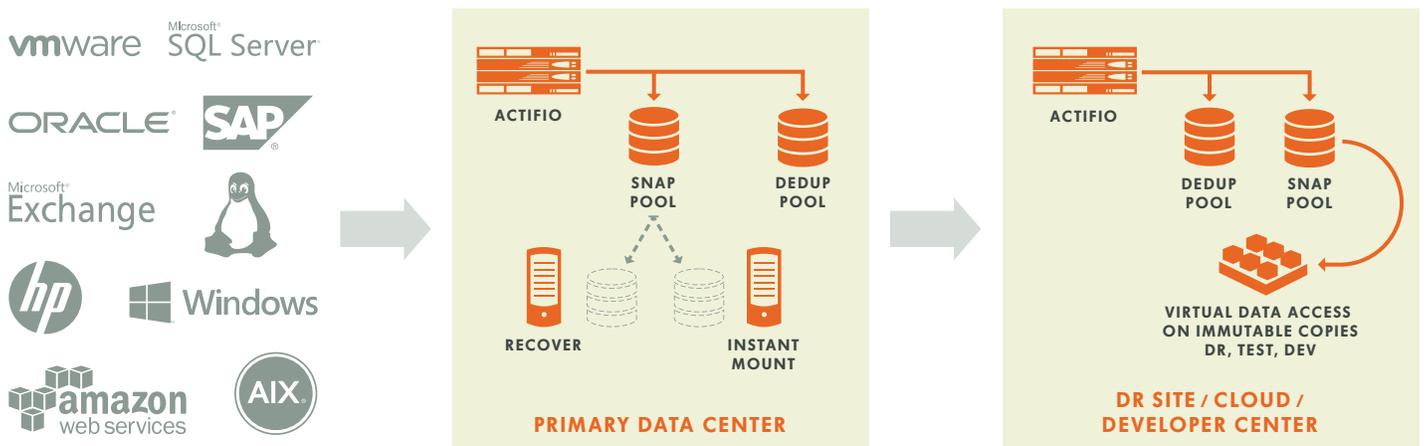
Actifio VDM provides three principal components (Figure 1) that make managing and protecting data radically simple. First is the unique method of data protection that captures data from applications, databases or file systems. Second, once data is protected, it can then be moved as part of a fine-tuned SLA to meet mission needs. Finally, built-in deduplication and compression allow for truly efficient movement and long-term storage of that data. These three components of the Actifio solution provide a foundation for a highly efficient and low-risk data availability plan in the event of a disaster.

### Data Protection: Virtual Data Pipeline

The Actifio data protection solution captures data from the applications in its raw format. This best practice is the most efficient method of decoupling data from production infrastructure. Actifio's copy data virtualization platform consolidates disparate storage service applications (such as backup, recovery, replication, and deduplication), and provides a data management platform that allows IT to deliver reliable application-centric data services. Actifio has liberated IT organizations and service providers of all sizes from data service sprawl, as well as the management challenges associated with the explosion of data copies.

At the heart of the Actifio copy data, virtualization platform is Actifio Virtual Data Pipeline™ (VDP). VDP virtualizes your data, allowing IT to provide data protection, test & development, analytics, as well as disaster recovery and business continuity all through a single storage platform. From a single, golden copy of your production data, Actifio enables secure access to a single, any point-in-time copy of your primary data, through a mount, clone, live clone or restore operation. It's Radically Simple.

FIGURE 1: Data is Captured, Protected, Used, Moved, Stored, Recovered



## COOP Challenge: Meeting the SLA

Actifio provides an Outcome Managed Service, such as COOP, through an inherent Service Level Agreement (SLA) driven data protection solution. Actifio drives enterprise operational efficiency in two important ways. First, Actifio discovers applications and file systems running in the environment. Next, SLAs are applied to applications and data sets. Actifio binds the data management services such as snapshots, replication, workflows, lifecycle management, and deduplication directly to application data. This enables fine-tuned SLAs from the volume level all the way down to individual VMs, with appropriate lifecycle policies assigned to each unique application.

Creating an SLA is easy and intuitive. Simply define the frequency of capture, lifecycle policies, retention periods, data mobility type and frequency, and more. Workflows leverage the point-in-time data sets created by SLAs to add additional levels of automation. Each SLA can be applied individually to each application or data set, based on the value of the data, thus giving IT more control over how data is used. SLAs are the cornerstone of next generation of data management.

## Data Availability: Where and When

The vast scope of government applications and data create many data availability challenges. Actifio's ability to protect, compress and transport data to alternate locations is a crucial enabler for remote work sites.

The Actifio platform delivers unique capabilities that enable applications to directly use point-in-time data copies, without the need for a traditional "restore" operation. This is because Actifio acts as an intelligent, fully integrated storage solution that can instantly create a virtual copy of the application data from any available point in time, and allow applications to access it efficiently via a Fibre Channel or iSCSI interface, just as if accessing a traditional storage system.

Application data from any point-in-time copy can be securely accessed from any permitted system connected to the Actifio copy data storage solution.

## Common Use Cases:

- Migrate Data to the Cloud or offsite for COOP or DR evaluation
- Recover data or a complete VM after a software or system failure
- Retrieve a file, directory or email account that was deleted accidentally
- Use a virtual copy of a production data set for testing, development or analytics
- Leverage virtual copies of complete systems for penetration testing or QA

For more information on how Actifio can Manage Data, Simplify Cloud adoption, provide Secure Continuity of Operations [actifio.com](http://actifio.com)

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