

Actifio Big Data Director™

Actifio Virtual Data Pipeline™ for Unstructured Data

At a Glance

Copy Data Virtualization from Actifio helps companies take control of their data, delivering greater business resilience and flexibility. Actifio Big Data Director (BDD) is built to extend Actifio's patented Virtual Data Pipeline™ (VDP) technology to large NAS servers from Isilon and NetApp.

Big Data Director (BDD) brings a new level of copy data virtualization scalability and protection. Customers can now extend their Actifio CDS platform to include large-scale NAS servers saving money and gaining operational efficiency with the ability to rapidly recover data to the individual dataset. BDD provides Actifio customers with an efficient platform for capturing, archiving, moving, and recovering large file systems from NAS servers, which have large unstructured datasets that can scale to PBs. Datasets have the ability to be instantly mounted from BDD giving organizations nearly immediate recovery of lost files, while saving money by eliminating a need for expensive system redundancy.

Actifio BDD is simply the fastest and easiest way to recover your unstructured data when and where you need them. This appliance is an on-premise solution to protect and instantly recover data locally or to your remote office with the click of a button.

Business Resiliency with Actifio Big Data Director:

- Allows the protection of large NAS servers
- Flexible Service Level Agreements (SLA) meet the needs of your individual datasets
- Change file tracking via API integration
- Incremental forever data capture with synthetic full restore for all your unstructured data
- Nearly instant recoveries of datasets local or to a remote office
- Inline and global deduplication to maximize storage efficiency
- Additional resiliency with deduplication-aware block-based replication

FIGURE 1: Big Data Director—Logical Diagram

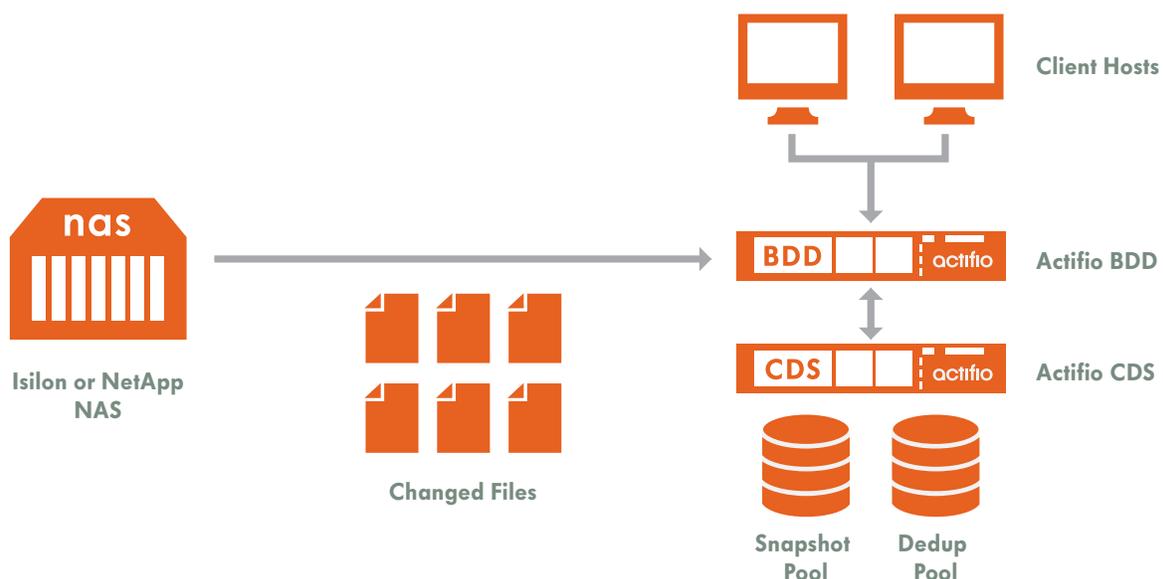


FIGURE 2: Eliminate NDMP Challenges

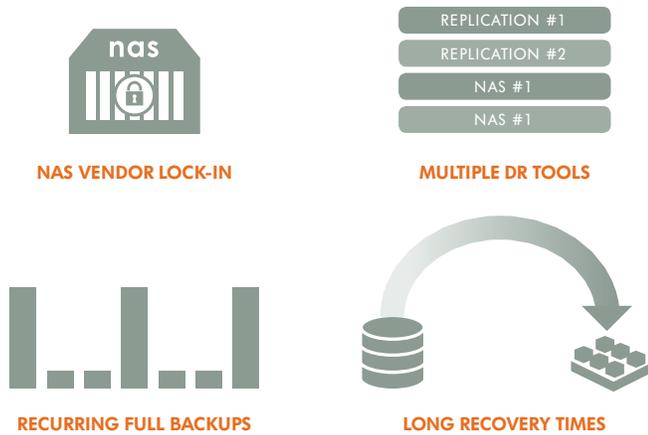


FIGURE 3: Radically Simple Management



Key Benefits

Speed

- Nearly instant recovery of large unstructured datasets local or remote reduces Recovery Time Objective (RTO) to minutes
- Integration with vendor API for efficient changed file tracking means no more file system scanning
- Save significant time by using a single tool to manage backups, replication, vault, and DR

Simplicity

- Capture and replicate data along with Access Control Lists (ACLs)
- Create custom datasets and apply SLAs that align with business priority
- An extension of Actifio CDS results in one robust backup and DR solution for all of your physical and virtual platforms.
- Easy to use management allows for efficient administration and recoveries

Scalability

- Modular and extensible system architected scales to meet today and tomorrow's needs
- A single solution to protect multiple NAS servers
- Supports very large datasets and protects with an incremental forever approach

Financial

- Reduce the business cost of downtime with low RTO of mission critical data
- Reduce storage burden by consolidating data protection silos, deduplication, and compression
- Achieve significant cost savings by replacing multiple point tools for backup, replication, and DR
- Eliminate expensive replication and WAN optimization with Actifio deduplication aware block-based replication for file data

Key Features & Capabilities

- **Incremental forever with synthetic full restore**—Actifio BDD ingests data using an incremental forever approach, leveraging change file tracking APIs. This eliminates the need to scan filesystems. Additionally, each protected image is a synthetic full eliminating the need to merge full and incremental backups.
- **Instant data access**—Directly mount or export datasets as CIFS or NFS regardless of the originating format.
- **WAN-Optimized Replication Protocol**—Leverage a highly efficient data movement protocol, optimizing bandwidth usage by only transferring only changed blocks to a remote BDD appliance greatly reducing WAN bandwidth (See Figure 4.)
- **Disaster Recovery**—mount or export datasets nearly instantaneously at a remote site to quickly recover your most important data.
- **Inherit Access Control Lists**—BDD will inherit ACLs from the source appliance and use these same ACLs when mounting or exporting datasets as CIFS or NFS shares.
- **Eliminate Redundant Systems**—Bandwidth efficiency of BDD can be leveraged to eliminate expensive NAS replication solutions.

Environment Support

A single Actifio Big Data Director can protect up to 50 TB or 200 million files. Up to eight BDD nodes can be paired with a single Actifio CDS appliance. BDD solution supports NAS environments based meeting the requirements shown below:

- **Isilon** (OneFS 7.1.1.3 or later)
- **NetApp** (ONTAP 8.x or later)

FIGURE 4: WAN-Optimized Replication Protocol



On-Premise System Requirements

The Actifio Big Data Director is a 2U rack-mountable hardware addition for your Actifio CDS appliance turning the appliance into an efficient platform for reliably capturing, archiving, replicating, and recovering a variety of unstructured data from large file systems. Each BDD node provides the necessary CPU, memory, and network bandwidth for the Actifio CDS appliance to capture, deduplicate, and export NAS file-level data. The solution can be scaled to eight BDD nodes per CDS appliance.

Each BDD node supports:

- 2 x 10Gbps Ethernet connection to NAS server
- 4 x 8Gbps FC connection to block storage from CDS appliance
- 2 x 1Gbps Ethernet connection for management and control

Support & Professional Services

Support and Maintenance

- Variable maintenance options are available ranging from next day to same day premium service. Consult your Actifio Sales Representative to determine the option that best matches your requirements.

About Actifio

Actifio™ pioneered the industry’s first platform optimized for managing copies of production data, eliminating redundant silos of IT infrastructure and data management applications.

Actifio Copy Data Storage (CDS) platform is based on patented Virtual Data Pipeline™ (VDP) technology, delivering dramatically enhanced business availability by eliminating backup and restore windows and the creation of virtual point-in-time copies of data on-demand, for use by any business application. Integrating data deduplication, network and processor utilization optimization, Actifio provides the most efficient way to manage data growth while solving your biggest IT challenges around information protection and availability.

For additional information, visit Actifio at www.actifio.com or contact Actifio at info@actifio.com or **877.282.5373**



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