Actifio Sky™

Copy Data Virtualization for the Data Center, Cloud, and the Edge

The volume of data is growing at a staggering pace, yet too much of what is being stored is excess copies of data. These copies are created by siloed data protection and availability applications (backup, snapshot, disaster recovery, business continuity, dev & test, compliance, analytics and others,) each of which creates copies of production data without knowing what copies already exist. With copy data virtualization, production data is kept intact, yet is captured non-disruptively in its native form. Only a single, physical 'golden' copy—one that can spawn innumerable virtual copies—is needed for all use cases.
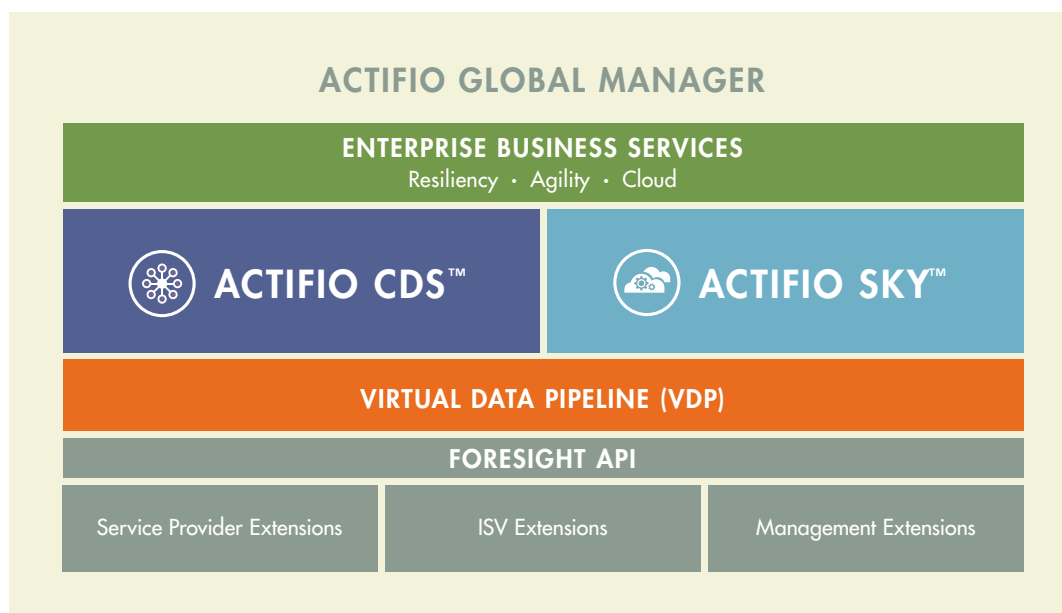
Sky™—The Power of VDP in a Virtual Appliance

Actifio's copy data virtualization platform helps companies take control of their data, delivering greater resilience and agility while enabling secure mobility of data to and from the cloud. As a robust virtual appliance, Actifio Sky™ is built on Actifio's patented Virtual Data Pipeline™ (VDP) that powers the data center appliance CDS™, yet offers a new level of deployment flexibility and range. Actifio Sky is ready for the demanding copy data virtualization needs of most environments with sizes and configurations suited for the datacenter, remote and branch offices, or even the cloud.

Critical capabilities include:

- **SLA Architect:** Foundation of Actifio's data virtualization platform, SLAs manage infrastructure and data in the language of the business. SLAs define sophisticated data flow across multiple use cases, even across locations. Granular policies can be applied to applications, platforms, or even individual VMs.

- **Accelerated Ingest with Change Block Tracking:** Capture of only the unique changed blocks of application data, dramatically accelerating time to capture, and reducing the burden on the production application.

- **Instant Data Use:** By directly mounting or cloning a read/write virtual copy of data to a server, no data movement is necessary, resulting in nearly instant access and recovery times.

- **WAN-Optimized Replication Protocol:** Actifio leverages a highly efficient data movement protocol, optimizing bandwidth usage by only transferring unique changed data to the remote data stores. This drives network usage down by up to 70%.

- **Cloud Support:** Private, Public, or Hybrid Cloud environments including AWS, vCloud Air, or other Actifio Service Provider partners, leveraging on-demand compute and storage infrastructure.

FIGURE 1: **Actifio Virtual Data Pipeline Delivers Powerful Copy Data Virtualization**

Sky™—For Remote / Branch Office Data

With over four million remote offices in the US alone, the reality is that a portion of this data is created and managed far away from the centralized data center, creating greater pressure to efficiently move data back from the edge to the "core". One motivation is data protection and governance. Another is to drive more complete analysis and insights. When combined with either the virtual appliance (Actifio Sky) or the physical appliance (Actifio CDS) in the datacenter, Sky™ for ROBO delivers WAN-optimized and storage-efficient data protection for remote offices, eliminating barriers to data mobility from the edge to the core.

Sky™—Taking Your Data, and your Business, to the Cloud

Leading analysts predict the majority of enterprise workloads will live in the cloud by 2020 and, as a result, enterprise applications will undergo significant transformation over the coming years. As a first step, many companies are considering using the cloud as a data vault to minimize or replace their reliance on tape for long-term data retention or to retire applications. Sky™ for Cloud, running in the public cloud, delivers cloud-based data vaulting for Actifio customers. Today, Actifio Sky™ instances can run in the public cloud including vCloud Air, Actifio Service Provider partners, and even AWS, consuming native Amazon compute and storage resources.

Actifio Sky™ Delivers the Following Benefits

- Powerful data protection for the datacenter in remote offices or the cloud
- Virtual appliance delivers simple site deployment in minutes
- Enables rapid recovery to or from remote site failure
- Out of band data capture delivers application-consistent data capture
- Powerful space efficiency through Direct-to-Dedup storage

- Network-optimized replication of data allows users to move data over the IP network, even with limited bandwidth
- Consumer grade user experience delivers an intuitive, point-and-click operation for managing data that translates into faster time to productivity
- Application-centric Service Level Agreement (SLA)-based management allows users to define their SLAs in simple terms based on how often they want to capture production data copies, and how long they want to keep them
- Powerful test and development environments through workflows that deliver rapid copy data deployments saving time, money, and storage resources.
- Replication source for remote data to data center CDS, or as target from CDS to Sky (vaulting target for data center Actifio CDS)
- Globally De-duplicated object file system manages the application-aware copy data lifecycle across points in time

FIGURE 2: **Remote Office Protection Can Span Multiple Sites and Deployment Configurations**
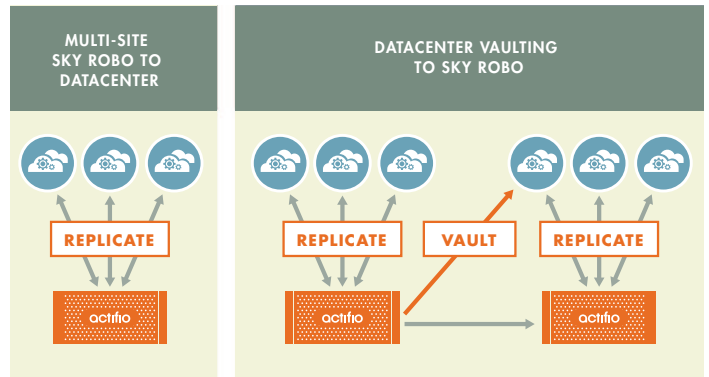

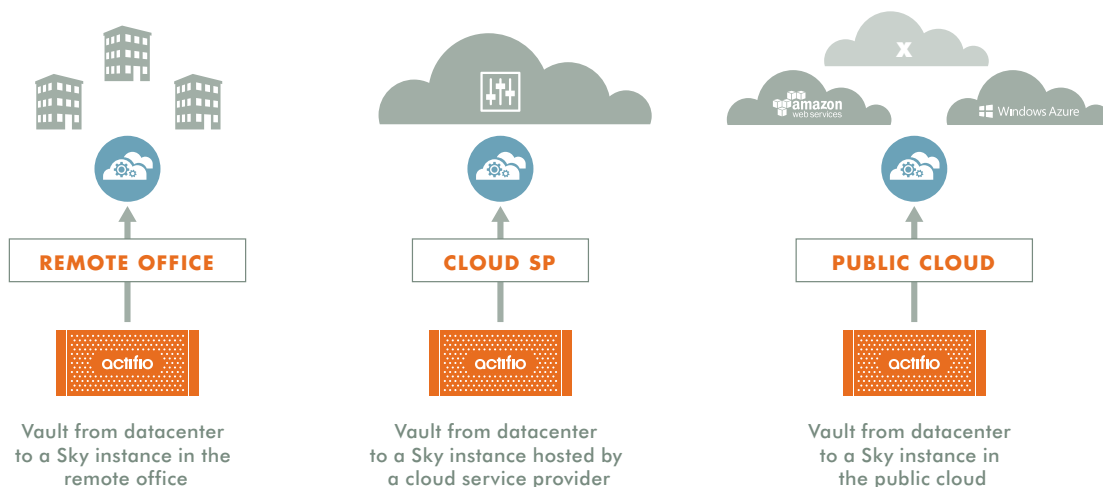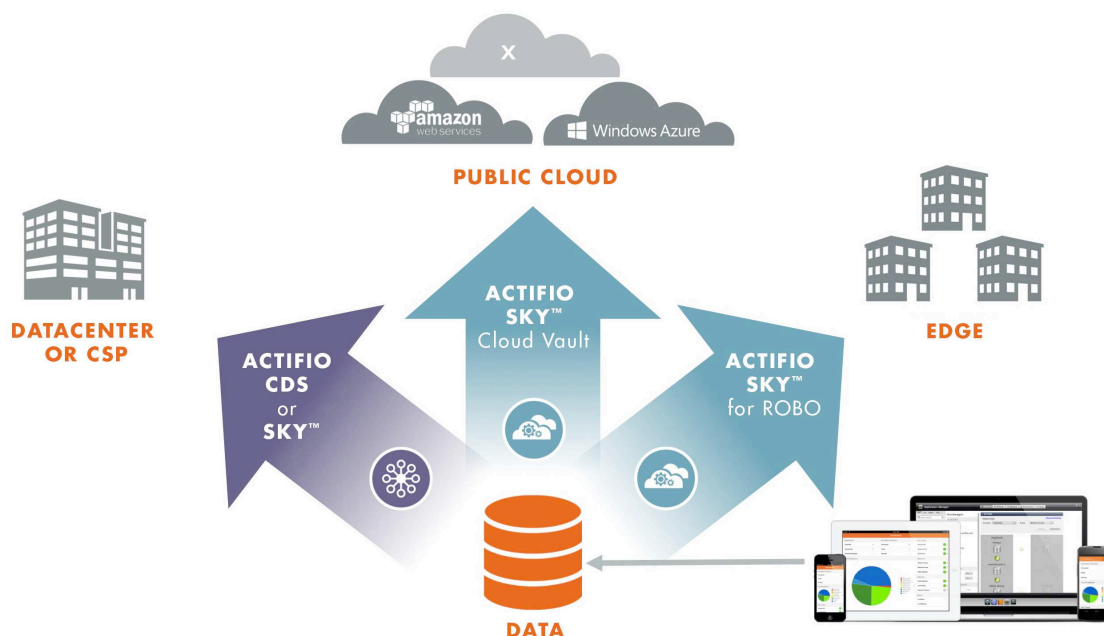FIGURE 3: **Vaulting Can be Directed to a Number of Targets, Including the Cloud**

REMOTE OFFICE

Vault from datacenter to a Sky instance in the remote office

CLOUD SP

Vault from datacenter to a Sky instance hosted by a cloud service provider

PUBLIC CLOUD

Vault from datacenter to a Sky instance in the public cloud

Actifio Anywhere

Enabling Actifio's technology to run on a virtual appliance has been a key milestone in the platform vision from the start. Every company, across every geography, vertical, and market segment should have the ability to tap the power of Actifio's copy data virtualization model in whatever form makes the most sense for them … as a fully integrated appliance leveraging bundled, existing, or third-party storage; as a virtual appliance which can be deployed readily into the edge or the cloud; or as a cloud-based platform-as-a-service (PaaS,) available on demand and accessible through any device. This guiding vision is known as 'Actifio Anywhere,' and it points to the exciting range of Actifio products and services planned for the coming months and years.

Actifio Sky™ Specifications

- Copy data virtualization for applications, databases, physical and virtual servers
- VMware Ready for Data Protection certified
- Delivered as an OVA or AMI
- Available in various sizes up to 50TB of Dedup space
- Leverages vStorage API integration
- One Sky instance can protect up to 400 hosts or applications

About Actifio

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

Actifio Sky and CDS platforms are 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**.