Solving **Unstructured Data** Management Challenges

Data Centers Drowning in Unstructured Data
Data Management Becomes a Real Struggle

Not all data growth is equal. While the volume of data continues to grow rapidly, unstructured data is growing at a much faster rate than structured data. This is fueled by the growth of initiatives such as machine-learning, analytics, cloud computing, social media, mobility, advanced imaging, and the Internet of Things (IoT). Typically, structured data (databases) represents only 10-20% of an enterprise's data. The rest of the 80% is mostly made up of unstructured data (files and objects). Generated from multiple sources, this data is typically stored in point solutions often provided by multiple vendors – one for backup stores, one for archival, one for engineering, and another one for file shares. This multi-solution approach for storing different datasets significantly increases the acquisition costs and adds operational inefficiencies. The multitude of point products creates data silos, each with a different workflow and UI, making it difficult to manage centrally. Lack of central management leads to low visibility into the data, multiple copies of data generated across the silos, and poor utilization of resources, it comes as no surprise that data centers are drowning in unstructured data.

Virtualization for Unstructured Data
Exacerbates the Problem

Virtualization has become ubiquitous because it makes your life easier. It delivers numerous benefits, from cost savings to maximizing resources, to streamlining system management just to name a few. However, not everything in our IT infrastructure is a good fit for a virtual environment. For example, it is very easy to spin up a virtual machine with Windows/Unix OS to perform general purpose file services. Unfortunately, this leads to a number of virtual machines (VMs) serving unstructured data accounting for a disproportionate share of the expensive, high-performance virtual storage capacity. That's in addition to taking away the compute/networking resources from the mission- and business-critical applications on the virtual infrastructure.

Unstructured Data Challenges Solved
OneXafe Consolidation Storage Platform

StorageCraft is focused on solving this unstructured data storage and data management problem. StorageCraft OneXafe is a consolidation scale-out storage platform for all unstructured data including backup targets. OneXafe is designed to meet the performance and manageability requirements of unstructured data. It can consolidate file, backup, and archival data within a single cluster depending on your needs. It provides the perfect file server environment as it supports SMB and NFS protocols. By using OneXafe as primary storage to replace file servers, you free up virtual server resources including expensive virtual storage infrastructure. Through consolidation, OneXafe eliminates the need to manage multiple file servers, reducing your costs and increasing the efficiency of your backup tasks and storage allocation.

OneXafe

Typical Applications

- Unstructured data
- File server consolidation
- Data archiving
- Converged scale-out storage and data protection
- Disk-based backup targets

Business Benefits

- Scale-out storage dynamically
- Optimize storage utilization
- Reduce TCO
- Protect data reliably
- Safeguard against ransomware
- Recover instantly with VirtualBoot and in seconds with snapshot promotion
- Simplify deployment and management
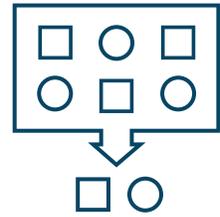- Provide total business continuity (with DRaaS)

Enterprise-class Features

- Infinite snapshots – continuous data protection
- Global deduplication
- Compression
- Optional encryption
- Optimal implementation for random and sequential i/o
- Multi-protocol support for Unix and Windows environments
- Simple and intuitive cloud-based management
- Flexible multi-site replication features

OneXafe: The Perfect Scale-out Platform
For Unstructured Data & Backup Target Needs

OneXafe's scale-out architecture allows you to provision only the storage that you require and not waste storage resources due to over-provisioning. The global inline deduplication and compression features help keep the storage footprint in check, ensuring the data stored on OneXafe to just have a single copy. You no longer have to deal with the multitude of data copies that occurs when data is spread across multiple silos. This helps you achieve significant cost efficiencies. Additionally, the continuous data protection capability eliminates the need for frequent full-backups of the data stored on OneXafe.

OneXafe Immutable Snapshots
Safeguard Your Data Against Ransomware

The continuous snapshots occur every 90 seconds for the first hour, then hourly, daily, weekly and monthly—weekly snapshots through the first year, then monthly forever. The snapshots are immutable and fully protect the unstructured data stored on OneXafe, guarding against ransomware or user error. They are completely unaffected and immune from deletions and modifications. You can easily recover any-sized share (from TBs to PBs) in seconds by promoting an existing immutable snapshot with read/write capabilities (e.g., after a ransomware attack).

OneXafe is Extremely Agile
Eliminates Fork-lift Upgrades

As your business storage requirements change, you can simply add any number of drives, at any time, and in any capacity granularity to meet your storage requirements. OneXafe automatically pools the new storage within the existing global storage pool. OneXafe grows the global storage pool without any configuration changes and without any application downtime. No more fork-lift upgrades.

Cloud-Based Management
Simplified Data Management

The OneXafe consolidation platform simplifies your infrastructure because you can now manage from a single pane of glass. This is achieved with OneSystem, a secure cloud-based management platform that proactively monitors, reports, and manages OneXafe in any location from any browser. It eliminates the need for dedicated servers and time-consuming software upgrades, you can simply login and gain the necessary insight into your storage infrastructure. Whether you have responsibility for a single location or multiple locations, OneSystem's administration capabilities empower you to manage the entire storage infrastructure. Simply and securely.

Integrated Data Protection
Total Business Continuity (with DRaaS)

OneXafe offers you the option to enable and configure enterprise-class data protection that is integrated with scale-out storage. It provides flexible deployment to accommodate your various workload requirements. OneXafe removes the need for siloed solutions, minimizes costs incurred from both standalone storage hardware and data protection software solutions, and eliminates redundancy in management. OneXafe provides complete data protection. With VirtualBoot technology you can perform a virtual machine recovery in milliseconds and restore entire infrastructure in minutes. You can easily recover an entire share by promoting an existing immutable snapshot in seconds. In the case of disaster, OneXafe ensures business continuity with an orchestrated virtual failover to the cloud in just one click, when used with StorageCraft Cloud Services (DRaaS). In addition, remote replication to an off-site location is also available.

StorageCraft
an Arcserve company