OneXafe 5410

Scale-Out High-Performance Storage

StorageCraft OneXafe® is a converged scale-out storage solution, unifying enterprise-class data protection with storage management. OneXafe simplifies data management, while delivering enterprise-class features and providing a comprehensive primary and secondary storage solution.

StorageCraft is reimagining storage with OneXafe 5410, an all-flash scale-out object-based storage solution that delivers the simplicity of NFS and SMB and that's optimized for virtual environments. OneXafe 5410 provides scale-out storage for high-performance, unstructured data and backup targets for instant restores in less than a second. It can be configured to serve primary storage for virtual workloads, unstructured data, or secondary storage with high performance needs.

With its unified storage architecture, OneXafe reduces management and operational costs for primary and secondary storage. Additionally, it solves common storage pain points: complicated installation, cumbersome storage management, lack of data security, and forklift upgrades. Without the shackles of a legacy storage architecture, StorageCraft's clean-sheet approach combines OneXafe 5410 with OneSystem, an elegant multi-tenant cloud-based management service.

Scale-Out Architecture

Storage on the Go

OneXafe employs a seamless scale-out cluster architecture supporting one or multiple OneXafe nodes and a single global file system. It delivers the flexibility for organizations to mix-and-match SSDs types (SATA, SAS) and capacity within the same OneXafe node and within a OneXafe cluster. As business storage requirements change, OneXafe is extremely agile; 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. No disruption to applications or users. No configuration settings to complete. No mouse clicks. No command line entries. No storage PhD required.

Scale-Out Storage for Virtual Environments

OneXafe uniquely supports VMware environments by enabling virtual machines to utilize scale-out NFS datastores. Consolidate multiple NFS datastores into a single OneXafe Cluster and scale to multiple PBs with OneXafe's advanced data reduction.

High Performance: OneXafe 5410 is an all-flash array for consolidating performance-hungry virtual machines.

More Capacity: Simply scale-out OneXafe by adding drives or OneXafe nodes and the virtual servers instantly aquire additional storage capacity—with near-zero configuration.

High-Performance Use Case Examples

- High-performance virtual storage for mid-size enterprises
- Hyper-recovery business continuity
- Technical applications

Highlights

Powerful

- Scale-out object-based file system for non-disruptive capacity and performance expansion with near-zero configuration
- Inline deduplication and compression to maximizes primary storage utilization without performance impact
- High performance with minutes of RPO for virtual and physical

Simple

- Easily manage on-premises OneXafe in any location from any browser
- Cloud-based OneSystem provides real-time storage and health monitoring the state of every OneXafe node, installed disk drive, network, remotely replicated storage and more
- Expand storage dynamically and easily – no forklift upgrades

Protected

- Always-on continuous data protection (CDP) capability snapshots every 90 seconds and immutable object-store — safeguard your data against ransomware or user errors
- Encryption at rest
- Multi-site remote replication, can be defined on per-share basis, enables fine-grained data recovery
- Real-time replication enables protection against multiple drive failures, ransomware, and disaster recovery

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Agile and Affordable

OneXafe's agile ability to add storage at any time comes with the additional benefit of delivering significant cost savings. StorageCraft's bring- your-own-drive philosophy treats drives as a commodity, enabling you to purchase drives at retail. Avoiding the 10x markup from legacy storage vendors quickly results in substantial cost savings compared to other storage solutions. Combined with OneXafe's powerful inline deduplication and compression, storage utilization is maximized and waste is minimized. The net result is an enterprise-class all-flash storage solution at $0.30/GB.

Flexible Multi-Site Replication

Implement disaster recovery with asynchronous multi-site replication. Employ a flexible one-to-one, one-to-many, many-to-one bi-directional replication architecture with multiple OneXafe clusters. Implement exactly the configuration that suits the business needs of geographically distributed environments. Only deduplicated and compressed data is replicated, ensuring the transfer is bandwidth efficient. Other vendors require the source and target storage infrastructure to be identical. StorageCraft does not impose any such restrictions for the utmost flexibility.

Near-Zero Configuration

Ease of use is not an afterthought with OneXafe. It is easily installed in less than 15 minutes, provisioned, and available to serve data with one-click configuration. Simply insert at least two drives, plug in Ethernet, and power it on. It's that easy. To add more storage,

simply add drives and the capacity is added to the same global storage pool. To increase availability or performance, additional OneXafe nodes can be added and automatically configured without interruption to applications or users. This provides organizations with non-disruptive scalability for their business.

Always-On Information

StorageCraft's distributed file system is built on top of a fine-grained content-addressable, distributed object store with a hashed cluster architecture that has small but variable-sized immutable objects as its foundation. This underlying technology allows OneXafe Cluster to fully protect the stored information without legacy RAID technologies. OneXafe transparently replicates and intelligently distributes the data objects across multiple drives within a failure domain and protects against both drive and OneXafe failures. In case of failure, data objects are redistributed and rebalanced to ensure full protection.

Integrated Data Protection

OneXafe offers organizations the option to enable and configure enterprise-class data protection with secondary storage. It provides flexible deployment to accommodate various workload requirements. At the same time, it significantly reduces costs associated with primary and secondary storage as well as data protection software. OneXafe removes the need for siloed solutions, minimizes costs incurred from both standalone hardware and software solutions, and eliminates redundancy in management.

OneXafe 5410 Specifications

System Input Requirements	100-240 V AC, 10.7 − 4.2A max
Power Supply	Hot-pluggable, redundant 750W power supply units
Weight (empty, no disks)	49 lb. (21.9 kg)
Space Requirements (W x H x D)	17.08 x 1.68 x 29.74 in. (434.0 x 42.8 x 75.55 mm); for x4/x10
Hard Drive Type	2.5" SATA (6 Gb/s) / SAS (6 Gb/s and 12 Gb/s)
Operating Temperature and Humidity	10°C to 35°C (50°F to 95°F)
Cooling	Eight variable-speed fans
File Service Protocols	SMB (1.0, 2.0, 2.1, 3.0); NFS v3
Gigabit Ethernet Ports	4 x 10GbE BASE-T **OR** 4 x 10GbE SFP+ 2 x 25GbE QSFP (optional)
USB Ports	USB 3.0 (front)
Remote Lights-Out Management	iDRAC via 1GbE port
Electromagnetic Emission and Compatibility	FCC Class A, EN 60950-1 or EMC, CISPR 22/CISPR 24 and EN 55022/55024, EU, India, Ukraine RoHS Directive 2011/65/EU, EU REACH
Drive Bays	10 x 2.5" drive slots (All drives are hot swappable)
Max Raw Capacity	38 TB (10 SSDs rated at 3.8 TB each)
Form Factor	1U

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