

Digital Video Archive

Take advantage of breakout ZFS technologies and a hybrid storage strategy to efficiently archive digital videos at a reasonable cost.



Introducing a Next-Generation Active Digital Archive

AT A GLANCE

- ZFS open storage platform optimized for archiving digital video content
- Hybrid storage pools for breakthrough storage performance and economics
- Inline deduplication and native compression of primary storage
- Efficient archiving from unlimited snapshots & 6Gb/s networking
- Scale-out as needs grow – unlimited storage capacity

Efficiently archive an entire digital video collection at a reasonable cost

In the media broadcasting and entertainment industries, video professionals are constantly producing and re-producing digital videos. As a result, a digital video archive's effectiveness lies heavily on its ability to allow end-users to effortlessly store and recall recently archived video for new business projects.

From HD to low-resolution videos, digital video assets vary in file-format and architecture. Unfortunately, legacy storage technologies are not only cost-prohibitive but also their proprietary technologies are better suited for long-term storage of block-level data, such as databases and applications or office documents. When end-users transfer digital videos from the video archive to their desktop over the network, latency occurs because the legacy archiving solution isn't optimized for sequential reads.

The answer? Rather than overinvest (and misuse) an expensive legacy storage solution, IT professionals tasked with managing their organization's digital video collection require a reasonably cost, next-generation digital video archive to actively store and retrieve a wide-range of digital video assets.

Introducing the StorageDirector Z Series

The search for an affordable digital video archive has led IT managers at leading media broadcasting and entertainment companies to the StorageDirector Z Series family of storage products – powered by NexentaStor™ Enterprise. The StorageDirector Z Series solutions bring together ZFS technologies and a hybrid storage strategy on an open storage platform to address cost and performance needs.

Digital Archiving Features:

NexentaStor™ ZFS-based Open Storage Platform – Based on the Open-Solaris kernel, NexentaStor™ OS delivers a non-proprietary ZFS storage platform that's optimized for archiving digital video

Unified Storage with Multiprotocol Support – Share digital videos between multiple end-users over NFS, iSCSI, CIFS and Fiber Channel networks

Hybrid Storage Pools with Native SSD Support – Experience breakthrough storage performance and economics

Deduplication & Compression – Conserve primary storage with in-line data deduplication and native file-compression

Unlimited Snapshots – Create any number of snapshots (with integrated search) to ensure granular recovery of data in a timely manner


High-Availability-Ready – Active/Active failover cluster to a stand-by instance of NexentaStor™ through mirrored head systems

Unlimited Storage Capacity – Expand any StorageDirector Z base configuration with large-capacity HDDs and 6Gb/s storage expansion shelves


Hybrid Storage Strategy | Maximized Cache & Capacity Needs

 Take advantage of hybrid storage pools to accelerate sequential read throughputs with I/O cache – an operation critical for creating an active archive for video professionals to store and retrieve videos on-demand. Unlike most legacy storage solutions, NexentaStor™ enables hybrid storage pools with native SSD support to maximize caching to ultra-fast SSDs while large-capacity needs are addressed with highly-dense, yet cost-effective, HDDs.

Efficient Archiving | Next-Generation Storage Capabilities

 Built around the versatile ZFS file-system, the NexentaStor™ Enterprise enables file-compression and data deduplication to save valuable storage space. At the same time, unlimited snapshot capabilities ensure recovery of videos in the event of an end-user (or system) mishap. Finally, StorageDirector Z Series models configured with large-capacity storage expansion take advantage of 6GB/s networking – based on LSI HBA technology – to improve overall bandwidth, ideal for frequent storage and retrieval of videos.

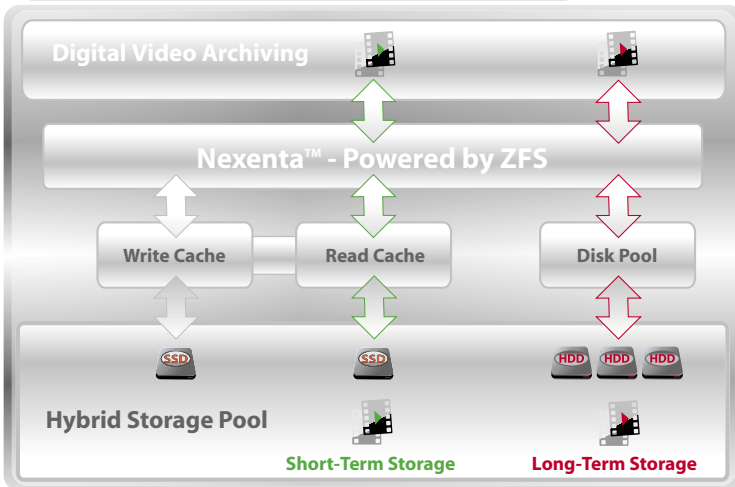
Open Storage Platform | Enterprise Storage Without the Price

 Seamlessly archive video across multiple locations with an open storage solution that's up to 40% less than closed-platform legacy technologies. Powered by NexentaStor™ Enterprise, the StorageDirector Z Series delivers a unified platform for archiving digital video over NFS, iSCSI, CIFS and Fiber Channel networks. And with multiple network protocol support, video professionals can collaborate on projects with simultaneous access the same storage pools from different locations.

Solution Overview

With a recognized architecture strategy to meet sequential read cache and capacity needs, the StorageDirector Z Series – powered NexentaStor™ Enterprise – meets the digital video archiving requirements of today's IT managers. Based on the ZFS file-system, NexentaStor™ enables hybrid storage pools and native support for SSDs to hold copies of frequently-used data on ultra-fast SSDs, while storing less frequently-used data in large-capacity disk pools comprised of slower, yet highly-dense and cost-effective, HDDs.

Hybrid Storage Pool Architecture



Technology Benefits:

Native Support for SSDs – Seamlessly utilize SSDs to maximize I/O cache operations & enhance system efficiency and reliability

Write/Read Cache to SSDs – Optimize sequential read throughput from I/O cache on ultra-fast SSDs

Capacity to HDDs – Capacity to store less-frequently used data to disk pools on slower HDDs

Business Benefits:

Hybrid-Storage Pools – Combined SSD/HDD technologies deliver breakthrough storage performance and economics

HDD Disk Pools – Large-capacity storage on cost-effective HDDs

Energy Savings – Hybrid storage pools consume 1/5 the power and 1/3 the cost of standard monolithic storage pools

Product Comparison

StorageDirector Z 245 Appliance



NexentaStor™
Powered by

StorageDirector Z 250 Appliance



NexentaStor™
Powered by

StorageDirector Z2 Foundation SAN



NexentaStor™
Certified

StorageDirector Z2 HA Cluster SAN



NexentaStor™
Certified

	StorageDirector Z 245 Appliance	StorageDirector Z 250 Appliance	StorageDirector Z2 Foundation SAN	StorageDirector Z2 HA Cluster SAN
System	2U Form Factor	2U Form Factor	Single Head System	Dual Head System
Operating System	NexentaStor Enterprise Edition	NexentaStor Enterprise Edition	NexentaStor Enterprise Edition	NexentaStor Enterprise Edition
Support Package	Pogo Complete Maintenance Plan	Pogo Complete Maintenance Plan	Pogo Complete Maintenance Plan	Pogo Complete Maintenance Plan
HA Cluster Plug-in	N/A	N/A	N/A	Included
VM Datacenter Plug-in	Available	Available	Available	Available
Maximum Disk Drives	24x SAS Drive Bays	12x SAS Drive Bays	Up to Four Disk Shelves	Up to Four Disk Shelves
Storage Expansion	Up to 40TB	Up to 40TB	Unlimited – Over 576TB	Unlimited – Over 576TB
Processor	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading
Maximum Memory	Up to 96GB Memory	Up to 96GB Memory	Up to 96GB Memory	Up to 96GB Memory
Disk Interconnect	6Gb/s Networking	6Gb/s Networking	6Gb/s Networking	6Gb/s Networking
Integrated Networking	(2) Gigabit Ethernet	(2) Gigabit Ethernet	(6) Gigabit Ethernet	(6) Gigabit Ethernet
Multipath I/O	Available	Available	Available	Available
Starting Price	\$5,520	\$6,020	\$32,300	\$29,400



Network storage made easy

Pogo Storage, a division of Pogo Linux, helps companies of all sizes reduce storage cost with breakout, next-generation technologies and a hybrid storage strategy.

Discover how network storage is made easy by visiting www.pogostorage.com

Additional Resources

www.pogostorage.com/nexenta
www.nexenta.com

Pogo Storage, a Division of Pogo Linux
8675 154th Avenue NE
Redmond, WA 98052

main 888.828.POGO (7646)
fax 425.898.2299
email sales@pogolinux.com