



# Dell Compellent NAS

## Consolidate block and file on a unified platform for maximum efficiency

Unstructured data such as digital images and office documents is expected to grow 60 percent annually. Add to that the continued proliferation of structured data from databases, and managing enterprise storage can quickly become costly and complex. Dell Compellent NAS solutions enable you to consolidate file-based data and manage it together with block-based data. This unified storage solution provides file-level access and control with block-level efficiency and scalability.

### Unify all data on one platform

Dell™ Compellent™ NAS solutions integrate the highly scalable Fluid Data architecture to consolidate all enterprise data onto a single platform. Provide file-level access and control for audit and regulatory compliance while taking advantage of the full Dell Compellent feature set, including Dynamic Capacity™, Data Progression™, Data Instant Replay™ and Remote Instant Replay™.

### Customize your architecture, centralize administration

Dell Compellent NAS solutions allow you to select the best architecture for your IT environment. The Dell Compellent zNAS is ideal for midsize and large organizations with mixed UNIX, Linux and Windows environments, while the Dell Compellent Storage Center NAS is optimal in pure CIFS or Windows environments.

Both NAS solutions share data with ease across server platforms, regardless of size or type. System administration is simplified with a central, wizard-based interface. And built-in intelligence automates volume creation and mapping.

### Deliver high performance and availability

With Dell Compellent NAS solutions, file serving operations remain separate from application operations to avoid bottlenecks from CPU-intensive processes. Yet all I/O requests are spread across the storage pool and processed in parallel, to increase overall performance and availability. Clustered configurations and hardware redundancy further enhance availability, with active/active failover and advanced multipathing (MPxIO) helping to ensure no single point of failure.

### Increase capability, lower your costs

By consolidating file servers and databases, you can significantly cut data center hardware, power and cooling costs. Dynamic Capacity enables you to provision any size volume upfront yet only consume capacity on write. Data Progression automatically migrates inactive data to lower-cost drives. Server Instant Replay eliminates the need for file server drives. And Data Instant Replay provides near-instant recovery without full-volume clones.

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Next generation file storage  
made automated and simple.

Feature	Dell Compellent Storage Center NAS	Dell Compellent zNAS
<b>Hardware</b>		
Form Factor	1U rack mount	1U rack mount
Clustering	Yes, up to 16 NAS 1U servers	Yes, 2 1U configuration
CPU	Dual-Core Xeon 5240 (3.0 GHz), 64-bit	2 Quad-Core Xeon E5540 (2.53 GHz), 64-bit
Memory Capacity	8GB FB DDR2 RAM	24GB or 48GB ECC DDR3 DIMM RAM
Expansion Slots	2 PCI-E, 1 universal I/O slot	2 PCI-E
Network Connectivity	LAN: 2 on-board 1Gb Ethernet ports, 1 quad-port 1Gb add-on NIC card SAN: 1 dual-port 4Gb FC HBA or 1 dual-port 1Gb iSCSI HBA	LAN: 2 on-board 1Gb Ethernet ports, 1 quad-port 1GbE add-on NIC card SAN: 1 PCI-E dual-port 8Gb FC HBA
Remote Management	IPMI card	Embedded IPMI card
Hard Drive	No, boot from SAN	No, boot from SAN
Peripheral Devices	CD/DVD-ROM	CD/DVD-ROM
High Availability	Redundant power supplies	Redundant power supplies, clustered heads with active/active failover
<b>Software</b>		
Platform	Windows Storage Server 2008	OpenSolaris ZFS
OS Environment	Ideal for Windows CIFS	Ideal for Unix or mixed CIFS/NFS
Administration	Active Directory	LDAP or mixed
WORM	n/a	Optional

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