



# Dell Compellent NAS

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

The amount of unstructured data, including digital images and office documents, is expected to grow significantly over the next several years. When you add to this the continued proliferation of structured data from databases, managing enterprise storage can quickly become costly and complex. Dell Compellent NAS products enable you to consolidate file- and block-based data onto a single unified platform designed for efficiency and scalability.

### Increase capability, lower your costs

With a unified SAN and NAS solution from Dell Compellent, you can provide file-level access and control while taking advantage of the full Dell Compellent feature set for NAS-dedicated volumes. File-based storage costs can be reduced through features such as Data Progression, which automatically migrates inactive data to lower-cost drives, and Dynamic Capacity, which enables you to provision any size volume upfront yet only consume capacity on write. Additionally, a high number of space-efficient snapshots, called Replays, can be created to ensure rapid recovery of entire NAS volumes.

A unified approach with Dell Compellent provides both block- and file-level data with access to the same virtualized pool of disk. There is no need to partition a certain number of disks for file-level needs and a separate number of disks for block-level needs. This helps to eliminate waste and can lower overall total cost of ownership (TCO).

### Customize your architecture, centralize administration

The Dell Compellent NAS portfolio allows you to select the best architecture for your IT environment. The Dell Compellent zNAS is ideal for midsize and large organizations with either pure NFS or mixed CIFS/NFS environments, while the Dell NX3000 for Compellent is optimal for pure CIFS 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. Clustered configurations, hardware redundancy and the ability to add storage capacity on the fly further enhance availability, with active/active failover and advanced multipathing (MPxIO) helping to ensure that there is no single point of failure.

### Achieve a single point of contact and contract

Both the Dell Compellent zNAS and the Dell NX3000 for Compellent are sold and supported by Dell Compellent, providing customers with an end-to-end solution that is completely covered by Dell Compellent's award-winning Copilot Support team.

## Dell Compellent NAS

Next generation file storage  
made automated and simple.

Feature	Dell NX3000 for Compellent	Dell Compellent zNAS
<b>Hardware</b>		
Form Factor	2U rack mount	1U rack mount
Clustering	Yes, up to 4 nodes	Yes, up to 2 nodes
CPU	2 Quad-Core Xeon X5650 (2.66Ghz), 64-bit	2 Quad-Core Xeon E5540 (2.53 GHz), 64-bit
Memory Capacity	24GB ECC DDR3 DIMM RAM	24GB or 48GB ECC DDR3 DIMM RAM
Expansion Slots	4 PCI-E slots	2 PCI-E slots
Network Connectivity	On-board: 4 1GbE ports LAN: 1 quad-port 1GbE NIC or 1 dual-port 10GbE NIC SAN: 1 dual-port 8Gb Fibre Channel HBA, 1 quad-port 1GbE NIC for 1Gb iSCSI, or 1 dual-port 10GbE NIC for 10Gb iSCSI	On-board: 2 1GbE ports LAN: 1 quad-port 1GbE NIC or 1 dual-port 10GbE NIC SAN: 1 dual-port 8Gb Fibre Channel HBA
Remote Management	Lifecycle Controller	Embedded IPMI card
Hard Drive	Yes, 2 internal disks in Raid 1	No, boot from SAN
Peripheral Devices	CD/DVD-ROM	CD/DVD-ROM
High Availability	Redundant power supplies, clustered heads (up to 4) with active/active failover	Redundant power supplies, clustered heads (up to 2) with active/active failover
<b>Software</b>		
Platform	Windows Storage Server 2008 R2 Enterprise	OpenSolaris ZFS
Environment	Ideal for pure CIFS	Ideal for pure NFS or mixed CIFS/NFS
Administration	Active Directory	LDAP or mixed

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