



# Dell PowerVault NX400

The next generation of affordable and reliable rack-mounted network-attached storage (NAS) offers you advanced data management and efficient data sharing. The Dell™ PowerVault™ NX400 array is designed to improve performance with the latest version of Microsoft® Windows® Storage Server.

## Efficient dedicated data sharing

This entry-level file-sharing system, based on enterprise-class Dell PowerEdge™ 12th generation server technology, is easy to manage with its integration of Windows Storage Server 2012 R2 (Standard Edition and Workgroup Edition). This specialized operating system helps control growing storage demands by making file storage more efficient than previous generation solutions.

Maintaining productivity is essential for any business, so NX400 offers disparate users simplified access to files and shares across a network-wide infrastructure, even to remote offices. File shares are easy to locate and resilient.

NX400 with Windows Storage Server 2012 (WSS2012) R2 helps eliminate data clutter by identifying duplicate files, storing one copy and replacing others with pointers<sup>1</sup>. It also has a single management interface that delivers improved managed file services across CIFS/NFS, and offers improved control and compliance over files, ideal for audit and planning purposes.

## Room to grow your business

PowerVault NX400's efficient file sharing is packaged in a small, 1U form factor, allowing extra room in your rack for other systems and components. Plus, its maximum 16TB<sup>2</sup> capacity allows plenty of space to grow files and shares — designed so you have room to grow your business.

## Simple deployment and management

Avoid the hassle of building a file server from scratch. PowerVault NX400 is optimized for storing, sharing, and protecting files, and is integrated and ready to go out of the box. In fact, the PowerVault NX400 can be ready to share files within minutes.

Take full advantage of the Initial Configuration Tasks wizard to streamline the setup process. Also, there is no need to buy additional Client-Access Licenses (CALs) for each user you add to your NX400. Support for multiple users is already built into this file-sharing system.

## Put the latest storage technology to work for you

Dell integrates the best of our PowerEdge servers with Windows latest Storage Server operating system, designed to improve reliability and performance. WSS2012 R2 enables the Server Message Block 3.0 (SMB3.0) protocol, which can improve performance with multichannel

failover, and is designed to increase the reliability of application specific capabilities for Microsoft SQL Server® and Hyper-V®.

Thin provisioning, deduplication and compression provides additional data management optimization by optimizing capacity allocation on the NAS. For remote offices, the new BranchCache® feature improves branch office connectivity on low-speed, high-latency links.

## Windows Storage Server 2012 R2 features

A new feature in Windows Storage Server 2012 R2 is called Work Folders. This feature allows you to Bring-Your-Own-Device (BYOD) so you can access work files from your personal computer or device, while keeping your organization's data safe through centralized controls, encryption and lock screen passwords.

Additionally there are new Storage Spaces functions that include storage tiering, SSD write-back cache, parity storage spaces on failover clusters, dual parity storage spaces, and faster recovery. An improved Storage Management API adds cluster awareness and remote management for these new Storage Spaces features.

WSS2012 R2 also enhances several of the current WSS2012 features, such as SMB protocol, iSCSI Target, DFS Replication, Deduplication. Changes to Failover Clustering and enhanced support for Hyper-V have made it faster and easier to implement continuous availability.

Affordable entry-level storage harnessing the innovations of Windows Storage Server 2012 R2

Features	Dell PowerVault NX400
Operating system	Microsoft Windows Storage Server 2012 R2 (Standard Edition and Workgroup Edition)
File access protocols	CIFS, NFS, FTP, SMB3.0, SMB Direct (RDMA)
Block access protocols	Leverages shared storage back end for block access; Microsoft iSCSI Target
Form factor	1U rack-mount system
Processors	Intel® Xeon® processor E5-2403 (4-core) 10M cache or E5-2420 (6-core) 15M cache
Memory	8GB <sup>2</sup> or 16GB
Internal storage	Always four (4) 3.5" internal drives that must be identical in capacity and type (NL-SAS or SATA)
Maximum internal capacity	12TB <sup>2</sup> raw (with 3TB NL-SAS)
Drives	SATA (7.2K): 500GB, 1TB, 2TB NL-SAS (7.2K): 1TB, 2TB, 3TB
Slots	2 PCIe slots: One x8 PCIe slot with x4 bandwidth, half-length, half-height One x16 PCIe slot with x16 bandwidth, half-length, full-height
RAID factory options	RAID 5
RAID custom options	0, 1, 5, and 10 with the PowerEdge Raid Controller (PERC) H310 and 0, 1, 5, 6, and 10 with PERC H710
RAID controller	PERC H310 or H710 (internal drives) or H810 (optional for external drives)
Availability	Hot-plug hard drives, hot-plug power
Cluster support	No
Management	Dell OpenManage™ featuring Dell Management Console
Remote management	Optional iDRAC Enterprise or Native Java RDP plug-in
Data protection features	SIS, DFS-R, Snapshots (VSS), FCI
Chassis	Height: 42.8 mm (1.68 inch) Width: With rack latches 482.4 mm (18.99 inch) Without rack latches 434.0 mm (17.08 inch) Depth: (excludes bezel) 607.0 mm (23.9 inch) Weight: (maximum) 19.3 kg (42.55 lb) Weight: (empty) 16.33 kg (36 lb)  Standard redundant cooling Hot-plug hard drives Hot-plug redundant power Hot-plug redundant cooling ECC memory
Rack support	Sliding ReadyRails™ for 4-post racks Static ReadyRails for 4-post and 2-post racks
AC power and maximum current	Redundant, 550W (Platinum) Voltage (100V~240V)
Regulatory	Regulatory Model: E07S Regulatory Type: E07S001  Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Dell and the Environment

<sup>1</sup>SIS (Single Instance Storage) is not available on the Workgroup edition

<sup>2</sup>GB means 1 billion bytes, TB equals 1 trillion bytes and PB equals 1 quadrillion bytes; total accessible capacity varies depending on operating environment.

## Global services and support

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

## Simplify your storage at [DellStorage.com/PowerVault](http://DellStorage.com/PowerVault)

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