

# SIMPLIFYING IT

The Dell™ EqualLogic™ PS Series is fundamentally changing the way IT organizations think about purchasing and managing storage. Built on a breakthrough storage virtualization architecture, the EqualLogic PS Series combines an intelligent, automated framework with a fault-tolerant hardware architecture to offer rapid deployment, enterprise quality performance and reliability, simplified storage management, and transparent SAN expansion.

## THE PS SERIES...

Supports a broad range of operating systems:

- Microsoft® Windows®, including Hyper-V™
- VMware® ESX / ESXi
- Citrix® XenServer™
- Red Hat® Enterprise Linux®
- SUSE™ Linux Enterprise
- Linux
- Sun Solaris™
- UNIX®
- HP-UX
- IBM AIX®
- Novell® NetWare®
- Mac OS® X

## PROVIDES PRIMARY AND SECONDARY STORAGE TO A WIDE VARIETY OF APPLICATIONS:

- Microsoft Exchange
- SQL Server
- Web Servers
- Virtual Servers
- SharePoint
- File Servers & Bulk File Storage
- ERP Systems
- Oracle® Database
- Oracle Collaboration Suite
- CRM
- Sybase®
- Lotus Notes®
- Online Learning Portals
- Voice over IP/Unified Communications
- Video Surveillance Systems
- Student Information Systems
- PACS Healthcare Systems
- Telecom Auditing & Billing Systems
- Accounting Systems
- Digital Media Archives
- Disk-based Backup & Restore
- De-duplication Target
- Archiving & Near-line Storage

## WORKS IN PRODUCTION ENVIRONMENTS ACROSS A BROAD RANGE OF INDUSTRIES:

- Finance
- Government
- Military
- Education
- Healthcare
- Media
- Retail
- Manufacturing
- IT/Web Services
- Energy
- Engineering
- Construction
- Legal Services
- Biotechnology
- ASP/ISP/MSP
- Telecom

**SIMPLIFY STORAGE AT**  
[DELL.COM/PSseries](http://DELL.COM/PSseries)

# INTELLIGENT iSCSI STORAGE ARRAYS



# THE DELL DIFFERENCE

## EASE OF USE

- Intelligent, automated management minimizes tedious administrative tasks
- From box to operating SAN in minutes
- Monitor petabytes of storage across dozens of SANs from a single console

## ENTERPRISE PERFORMANCE

- Exceptional performance for both sequential and transactional applications with linear scalability as arrays are added
- Automated, real-time load balancing across drives, RAID sets, connections, cache and controllers for optimized performance and resource utilization
- Pooling capability enables appropriate service levels for individual applications

## RELIABILITY

- Fault-tolerant, fully-redundant dual controller design for no single point of failure
- Designed for 99.999% availability
- Enterprise-class RAID protection (RAID 5/6/10/50)
- Hot-swappable components, flexible online redeployment of arrays

## SCALABILITY

- Modular design allows growth when needed
- Online expansion between hardware generations without affecting data availability
- Linear scalability—scale capacity and performance together

## AFFORDABILITY

- All-inclusive enterprise features and functionality with no additional software licenses to purchase
- Easy connection via iSCSI
- Automated features help to eliminate highly specialized administrative costs

# PS SERIES iSCSI STORAGE ARRAYS

## PS6000 SERIES: VIRTUALIZED ARRAYS

### DESIGNED FOR THE ENTERPRISE DATA CENTER

#### PS6000E

- Enterprise performance offering great cost-per-Gigabyte
- High capacity configurations for data intensive applications

Array Capacity	Storage Controllers	Disk Drives & Capacities
2 TB	Single	8-250 GB/7,200 RPM SATA drives
4 TB	Single	16-250 GB/7,200 RPM SATA drives
4 TB	Dual	16-250 GB/7,200 RPM SATA drives
8 TB	Dual	16-500 GB/7,200 RPM SATA drives
16 TB	Dual	16-1 TB/7,200 RPM SATA drives

#### PS6500E

- High-density system for huge capacity and scalability at best cost-per-Gigabyte in PS Series

Array Capacity	Storage Controllers	Disk Drives & Capacities
24 TB	Dual	48-500 GB/7,200 RPM SATA drives
48 TB	Dual	48-1 TB/7,200 RPM SATA drives

#### PS6500X

- High-density, high-performance for capacity-intensive, primary applications

Array Capacity	Storage Controllers	Disk Drives & Capacities
28.8 TB	Dual	48 - 600GB/10,000 RPM SAS Drives

#### PS6000X

- Balance of great performance and capacity for the enterprise

Array Capacity	Storage Controllers	Disk Drives & Capacities
6.4 TB	Dual	16-400 GB/10,000 RPM SAS drives
7.2 TB	Dual	16-450 GB/10,000 RPM SAS drives
9.6 TB	Dual	16-600 GB/10,000 RPM SAS drives

#### PS6000XV

- High performance for demanding enterprise applications

Array Capacity	Storage Controllers	Disk Drives & Capacities
4.8 TB	Dual	16-300 GB/15,000 RPM SAS drives
7.2 TB	Dual	16-450 GB/15,000 RPM SAS drives
9.6 TB	Dual	16-600 GB/15,000 RPM SAS drives

#### PS6000S

- SSD system for exceptional low-latency, high-IOPS performance at affordable value

Array Capacity	Storage Controllers	Disk Drives & Capacities
400 GB	Dual	8-50 GB SSD Drives
800 GB	Dual	16-50 GB SSD Drives

<sup>1</sup>Qualified for Microsoft® Windows Server® 2003, Windows Server® 2008, including Hyper-V, Windows Server® 2008 R2, including Hyper-V, VMware®, Linux® and Sun™ Solaris™ Operating Systems

<sup>2</sup>Qualified for Microsoft® Windows Server® 2003, Windows Server® 2008, including Hyper-V™ and Windows Server® 2008 R2 including Hyper-V™

<sup>3</sup>Qualified for VMware® ESX 3.5, ESXi 3.5, ESX 3 and ESX 4

## PS4000 SERIES: VIRTUALIZED ARRAYS

### DESIGNED FOR BRANCH OFFICE AND SMB NEEDS

#### PS4000E

- Entry configuration for affordable capacity

Array Capacity	Storage Controllers	Disk Drives & Capacities
2 TB	Single	8-250 GB/7,200 RPM SATA drives
4 TB	Single/Dual	16-250 GB/7,200 RPM SATA drives
8 TB	Dual	16-500 GB/7,200 RPM SATA drives
16 TB	Dual	16-1 TB/7,200 RPM SATA drives

#### PS4000X

- Great balance of cost effective performance and capacity

Array Capacity	Storage Controllers	Disk Drives & Capacities
6.4 TB	Dual	16-400 GB/10,000 RPM SAS drives
7.2 TB	Dual	16-450 GB/10,000 RPM SAS drives
9.6 TB	Dual	16-600 GB/15,000 RPM SAS drives

#### PS4000XV

- High performance for demanding remote office applications

Array Capacity	Storage Controllers	Disk Drives & Capacities
4.8 TB	Dual	16-300 GB/15,000 RPM SAS drives
7.2 TB	Dual	16-450 GB/15,000 RPM SAS drives
9.6 TB	Dual	16-600GB/15,000 RPM SAS drives

## ENTERPRISE DATA SERVICES

### Data Protection, Availability & Recovery

- Auto-Replication, Multi-Way
- Instant Volume Restore
- Multi-Path I/O<sup>1</sup>
- Multi-Volume, Writeable Snapshots
- Snapshot and Auto-Replication Scheduler
- Volume Cloning
- Volume Consistency Sets

### Management

- PS Group Manager
- Rapid Provisioning
- Remote Setup Wizard
- Roles-Based Administration
- Volume Management

### Maintenance

- Auto-Stat Disk Monitoring System
- E-mail Home
- Enclosure Monitoring System
- SAN HeadQuarters Historical Performance and Event Monitoring

### Storage Virtualization

- Array Evacuation
- Automatic Load Balancing
- Automatic or Manual Storage Tiering
- Complete SAN Virtualization
- Online Data and Volume Movement
- RAID Load Balancing
- Storage Pools
- Thin Provisioning

### Server Management & Protection Integration

- Auto-Snapshot Manager/ Microsoft® Edition<sup>2</sup>
- Auto-Snapshot Manager/ VMware® Edition<sup>3</sup>
- Automatic MPIO Connection Management
- Microsoft® VSS and VDS Providers
- Smart Copy for Microsoft® Hyper-V™, Exchange®, SQL Server®, Windows® File Systems and VMware® VMFS
- VMware® Site Recovery Manager Adapter