

DELL EQUALLOGIC PS6000X



The Dell™ EqualLogic™ PS6000X is a virtualized iSCSI SAN that combines intelligence and automation with fault tolerance to provide simplified administration, rapid deployment, enterprise performance and reliability, and seamless scalability. With 10,000 RPM SAS disk drives, the PS6000X array provides up to 9.6 TB[†] of storage for a great balance of cost-effective performance and capacity. The PS6000 line features a redesigned controller with 2x the memory of its predecessor and a fourth Gigabit Ethernet port that can deliver improved sequential read and write performance[‡].

EXCEPTIONAL EASE OF USE

The PS6000X is an intelligent storage array that is designed to provide rapid installation, simple management, and seamless expansion. All PS Series storage arrays include SAN configuration features and capabilities that sense network connections, automatically build RAID sets, and conduct system health checks to help ensure that all components are fully functional. A PS6000X is designed to be installed, configured, and serving storage in less than one hour.

MODULAR DESIGN WITH ENTERPRISE RELIABILITY

EqualLogic PS Series arrays are based on a virtualized modular storage architecture that enables IT managers to purchase only the storage they need, when they need it — helping to prevent both underutilization and over-provisioning. Using innovative data movement technology, all EqualLogic PS Series arrays in a SAN work together to automatically manage data, load balance across all resources, and expand to meet growing storage needs.

The EqualLogic SAN line is designed to meet and exceed the rugged requirements of the data center. The PS6000X includes fault tolerance capabilities through fully redundant and hot-swappable components — standard dual-controllers, dual fan trays, dual power supplies, and disk drives with hot spares.

ENTERPRISE DATA SERVICES WITHOUT ADDITIONAL COST

With built-in storage features once available only to top-tier data centers, the PS6000X enables best practice storage for every size organization. EqualLogic PS Series arrays include the following enterprise data services and software features with no additional software licensing fees:

MANAGEMENT | PS Group Manager • SAN HeadQuarters Multi-Group Monitoring • Rapid Provisioning • Remote Setup Wizard • Roles-Based Administration • Volume Management

DATA PROTECTION, AVAILABILITY AND RECOVERY | Auto-Replication, Multi-Site • Instant Volume Restore • Multi-Path I/O[‡] • Multi-Volume, Writeable Snapshots • Snapshot and Auto-Replication Scheduler • Volume Cloning • Volume Consistency Sets

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

MAINTENANCE | Auto-Stat Disk Monitoring System • E-mail Home • Enclosure Monitoring System • Detailed Historical Performance Monitoring

SERVER MANAGEMENT AND PROTECTION INTEGRATION | Auto-Snapshot Manager/Microsoft® Edition[‡] • Auto-Snapshot Manager/VMware™ Edition[‡] • 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

FLEXIBILITY WITH LOW COST OF OWNERSHIP

The Dell EqualLogic PS Series arrays represent a breakthrough in storage economics, from purchase and setup to operation and upgrades. Unlike traditional SANs, the EqualLogic PS Series includes software and applications expected from an enterprise-level SAN at no extra cost. The PS Series scales on-demand — and online — allowing storage growth without disrupting applications. As a result, EqualLogic PS6000X arrays provide exceptional flexibility at a low total cost of ownership.

Whether consolidating a direct-attached storage (DAS) infrastructure, migrating data from an existing SAN or NAS system, streamlining data protection processes, or simply adding storage capacity, the EqualLogic PS Series from Dell offers a family of proven, high-performance, self-managing storage arrays designed to meet the requirements of today's critical datacenter environments.

[†]Based on testing performed by Dell Labs in January 2009 comparing Dell EqualLogic PS6000 Series arrays to PS5000 Series arrays

[‡]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

[‡]Qualified for Microsoft® Windows Server® 2003, Windows Server® 2008, including Hyper-V™ and Windows Server® 2008 R2 including Hyper-V™

[‡]Qualified for VMware® ESX 3.5, ESXi 3.5, ESX 3 and ESX 4



FEATURES		DELL EQUALLOGIC™ PS6000X	
Product Configurations			
Storage Controllers	Dual controllers with a total of 4 GB ⁺ battery-backed memory Battery-backed memory provides up to 72 hours of data protection		
Hard Disk Drives	Sixteen (16) SAS hot-pluggable hard disk drives		
Drive Capacity	10,000 RPM SAS drives available in 400 GB ⁺ , 450 GB ⁺ and 600 GB ⁺		
System Capacity	6.4 TB ⁺ using sixteen (16) 400 GB ⁺ SAS disk drives, 7.2TB ⁺ using sixteen (16) 450 GB ⁺ SAS disk drives, 9.6 TB ⁺ using sixteen (16) 600 GB ⁺ SAS disk drives		
Technical Highlights			
Volumes	Up to 1,024		
Snapshots	512 per volume / up to 10,000 total		
Hosts Accessing PS Series Group	Up to 512 per pool / 2,048 per group		
Host Protocol	Any standards-compliant iSCSI initiator		
Operating Systems Supported	Windows® 2000 Server, Windows Server® 2003, Windows Server® 2008 including Hyper-V™, Windows Server® 2008 R2 including Hyper-V™, Windows Vista®, Windows XP®, Red Hat® Enterprise Linux®, SUSE® Linux® Enterprise, Linux, Sun™ Solaris®, UNIX®, IBM® AIX®, HP-UX, Mac OS® X, VMware® ESX Server 3 / 3.5 / 4 ESXi 3.5, Citrix® XenServer™, Virtual Iron®, Novell® Netware®		
RAID Support	Automatic RAID 5, RAID 6, RAID 10, and RAID 50		
GbE Network Interfaces	Four (4) copper per controller		
TCP Network Support	IPv4, IPv6 core support		
Expansion Option	Can be combined with other EqualLogic PS Series arrays in the same SAN group, online		
Reliability	Redundant, hot-swappable controllers, power supplies / cooling fans, and disks Individual disk drive slot power control		
Enclosure Monitoring System	Automatic spare configuration and utilization SMART Automatic bad block replacement Auto-Stat Disk Monitoring System (ADMS) to monitor health of data on disk drives		
Management Interfaces	SAN HeadQuarters multi-group performance and event monitoring tool Serial console Ability to configure a separate management network		SNMP, telnet, SSH, HTTP, Web (SSL), host scripting Multi-administrator support
Security	CHAP authentication Access control for iSCSI Access control for management interfaces including RADIUS support		
Notification Methods	SNMP traps, e-mail, syslog		
Power	AC voltage: 100-240 VAC ±10% single phase Power factor: 0.98 (minimum) Heat dissipation: 1,740 BTU per hour (maximum)		Frequency: 47-63 Hz Power consumption: 520 VA, 540 Peak VA (operating maximum) Power supplies: Dual 440W dc
Environmental	Temperature range: 5 to 35°C / 41 to 95°F Storage temperature: -20 to 60°C / -22 to 140°F Altitude: -70 to 3,048 m operational / -305 to 12,192 m non-operational Relative humidity: 20 to 80% non-condensing operational / 5 to 95% non-condensing non-operational Shock: 5 g 10 ms ½ sine operational / 30 g 10 ms ½ sine non-operational Vibration: Random .21 grms @ 5-500Hz operational / Random 1.04 grms 2-200Hz non-operational Acoustics: Sound Power Operating: <5.8 db LpA @ 20°C Air Quality: Airborne contaminant level of G2 or lower as defined by ISA-S71.04-1985		
Physical	Height: 13 cm / 5.12 in / 3 EIA units Width: 48.26 cm / 19.0 in / 1EC Rack Compliant Depth: 55.1 cm / 21.7 in Weight: 36 kg / 79.6 lb (maximum configuration)		
Basic and Optional Dell Support Services	1-Year Dell Basic Service* : Included with all EqualLogic purchases. For a period of one year – telephone support services during local business hours excluding local national holidays; service parts shipped via next business day freight method or the next most expedited shipping available in the locality; access to software/firmware updates. Dell ProSupport** for IT or for End-Users with NBD or 4 Hour Onsite Options : Direct access to Dell experts, 7x24x365 phone support, collaborative hardware and software support, escalation support, global Command Center management and monitoring, how-to application and configuration assistance (Dell ProSupport for End-Users only). Additional Dell ProSupport** Options include : Keep your Hard Drive (KYHD), Mission Critical, and Dell ProSupport for IT with Enterprise-Wide Contract.		
Optional Dell ProConsult	Storage Consulting from Dell** offers a comprehensive suite of assessment, design and implementation services to help customers get the most from their EqualLogic PS Series product, covering data management, application performance, data protection and cost of ownership. Dell Consultants can provide practical action-oriented plans, to help deliver specific, predictable and measured outcomes through high-impact, short duration projects.		

⁺GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

*For a copy of the EqualLogic Limited Warranty and Dell's Basic Service Description write Dell Inc., Attn: Customer Service, 300 Innovative Way, Suite 301, Nashua, NH 03062 USA or see www.dell.com/warranty and www.dell.com/servicecontracts

** Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicesdescriptions



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