

DELLTM EQUALLOGIC[®] PS5000X



Dell EqualLogic PS5000X is a virtualised 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 PS5000X array provides outstanding performance with up to 6.4 TB³ of storage capacity.

EXCEPTIONAL EASE OF USE

The PS5000X 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 topology, automatically build RAID sets, and conduct system health checks to help ensure that all components are fully functional. A PS5000X is designed to be installed, configured, and serving storage in less than one hour.

MODULAR DESIGN WITH ENTERPRISE RELIABILITY

Dell EqualLogic PS Series arrays are based on a virtualised modular storage architecture that enables IT managers to purchase only the storage they need, when they need it—helping to prevent both underutilisation and over-provisioning. Using innovative data movement technology, all Dell 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 Dell EqualLogic PS5000X Series is designed to meet and exceed the rugged requirements of the data centre. The PS5000X includes fault tolerance capabilities through fully redundant and hot-swappable components—dual-controllers, standard dual fan trays, dual power supplies, and disk drives with hot spares.

ENTERPRISE DATA SERVICES WITHOUT ADDITIONAL COST

The PS5000X has built-in storage features once relegated to top-tier data centres, enabling best practice storage for every size organisation. EqualLogic PS Series arrays include the following enterprise data services and software features with no additional software licensing fees:

- Auto-Replication
- Writeable Snapshots
- Automatic Load Balancing
- Auto-Snapshot Manager¹
- Auto-Stat Disk Monitoring System
- Multi-Path I/O²
- PS Group Manager
- Pooled and Tiered Storage
- Snapshots and Auto-Replication Scheduler
- E-mail Home
- Smart Copy for Microsoft[®] SQL Server[®] and Windows[®] File Systems
- Roles-based Administration
- Storage Virtualisation
- Thin Provisioning
- Volume Consistency Sets
- Volume Cloning
- Volume Management
- Volume Snapshot

FLEXIBILITY WITH LOW COST OF OWNERSHIP

Dell EqualLogic PS5000X Series arrays represent a breakthrough in storage economics, from purchase and setup to operation and upgrades. Unlike traditional SANs, the PS Series comes complete with the available software and applications expected from an enterprise-level SAN. The PS5000X Series scales on-demand—and online—allowing storage growth without disrupting applications. As a result, Dell EqualLogic PS5000X 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, streamlining data protection processes, or simply adding storage capacity, the Dell EqualLogic PS Series offers a family of proven, high-performance, self-managing storage arrays designed to meet the requirements of any SAN environment.

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FEATURES		DELL™ EQUALLOGIC® PS5000X
Product Configurations		
Storage Controllers	Dual controllers with a total of 2 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 ²	
System Capacity	6.4 TB ³ using sixteen (16) 450 GB ² 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	
Host Protocol	Any standards-compliant iSCSI initiator	
Operating Systems Supported	Windows 2000 Server, Windows Server® 2003, Red Hat® Enterprise Linux®, SUSE® Linux Enterprise, Linux, Sun™ Solaris, UNIX®, IBM® AIX®, HP-UX, Mac OS® X, VMware® ESX Server, Novell® Netware®	
RAID Support	Automatic RAID 5, RAID 10, and RAID 50	
GbE Network Interfaces	Three (3) copper	
Expansion Option	Can be combined with other Dell EqualLogic PS Series 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 utilisation SMART Automatic bad block replacement Auto-Stat Disk Monitoring System (ADMS) to monitor health of data on disk drives	
Management Interfaces	SNMP, telnet, SSH, HTTP, Web (SSL), host scripting Serial console 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 Frequency: 47-63 Hz Power factor: 0.98 (minimum) Power consumption: 490 VA, 530 PeakVA (operating maximum) Heat dissipation: 1,700 BTU per hour (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	
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: 35 kg / 77.6 lb (maximum configuration)	

¹ Qualified for Microsoft Windows Server® 2003

² Qualified for Microsoft Windows Server 2000 and 2003, VMware®, Linux® and Sun™ Solaris Operating Systems

³ For hard drives, one TB = one trillion bytes; GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less.



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