

DELLTM EQUALLOGIC[®] PS5000XV



Dell EqualLogic PS5000XV 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 15,000 RPM SAS disk drives, the PS5000XV array provides high transactional performance with up to 4.8 TB³ of storage capacity.

EXCEPTIONAL EASE OF USE

The PS5000XV 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 PS5000XV 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 PS5000XV Series is designed to meet and exceed the rugged requirements of the data centre. The PS5000XV 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 PS5000XV has built-in storage features once relegated to top-tier data centres, enabling best practice storage for every size organisation. The Dell 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 PS5000XV 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 PS5000XV series scales on-demand—and online—allowing storage growth without disrupting applications. As a result, Dell EqualLogic PS5000XV 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.

FEATURES		DELL™ EQUALLOGIC® PS5000XV	
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 Capacities		15,000 RPM SAS drives available in 146 GB³, 300 GB³	
System Capacities		2.3 TB³ using sixteen (16) 146 GB³ SAS disk drives 4.8 TB³ using sixteen (16) 300 GB³ 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		Standard: 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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