

DELL EQUALLOGIC™ PS5000XV



Dell EqualLogic PS5000XV 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 15,000 RPM SAS disk drives, the PS5000XV array provides high transactional performance with up to 7.2 TB 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

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 — preventing 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 PS5000XV Series is designed to meet and exceed the rugged requirements of the data center. 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 centers, enabling best practice storage for every size organization. The EqualLogic PS Series arrays include the following enterprise data services and software features with no additional software licensing fees:

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

DATA PROTECTION, AVAILABILITY AND RECOVERY | Auto-Replication, Multi-Way • Instant Volume Restore • Multi-Path I/O¹ • 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 • Performance Monitoring

SERVER MANAGEMENT AND PROTECTION INTEGRATION | Auto-Snapshot Manager/Microsoft Edition² • Auto-Snapshot Manager/VMware Edition³ • Automatic MPIO Connection Management • Microsoft VSS and VDS Providers • Smart Copy for Microsoft[®] 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 comes complete with the available software and applications expected from an enterprise-level SAN. The PS Series scales on-demand — and online — allowing storage growth without disrupting applications. As a result, 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 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.

¹Qualified for Microsoft Windows Server 2000 and 2003, VMware[®], Linux[®] and Sun[™] Solaris[™] Operating Systems

²Qualified for Microsoft Windows Server[®] 2003 and Windows Server[®] 2008

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



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 GB, 300 GB	
System Capacities	2.3 TB using sixteen (16) 146 GB SAS disk drives 4.8 TB using sixteen (16) 300 GB SAS disk drives 7.2 TB using sixteen (16) 450 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 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 / ESXi 3.5, Citrix XenServer, Virtual Iron®, Novell® Netware®	
RAID Support	Automatic RAID 5, RAID 10, and RAID 50	
GbE Network Interfaces	Three (3) copper per controller	
Expansion Option	Can be combined with other EqualLogic PS Series online	
TCP Network Support	IPv4, IPv6 core support including JITC	
Expansion Option	Can be combined with other 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 utilization 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 Ability to configure a separate management network	
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 Peak VA (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 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: 35 kg / 77.6 lb (maximum configuration)	
Customer Care Services Programs	Dell EqualLogic PS5000 Customer Care Plus: 24-hour priority online/telephone access, software maintenance and updates, 4-hour onsite advance hardware replacement Dell EqualLogic PS5000 Customer Care: 24-hour priority online/telephone access, software maintenance and updates, next business day advance hardware replacement Limited Warranty*: 2 years telephone support (business hours 9AM-5PM EDT/EST USA); 1 year software maintenance and updates; 2 years hardware (return to factory, first 90 days advance replacement, pass through of drive manufacturer warranty)	
Additional Services**	Dell Services can architect, deploy and optimize an IT environment for your business ensuring that the data you need is available to keep your business running and secure. Keep Your Hard Drive: Available for customers who want to retain control over sensitive data.	

* For copy of Ltd Hardware Warranty, write Dell Inc., Attn: Customer Service, 300 Innovative Way, Suite 301, Nashua, NH 03062 USA or see HYPERLINK <http://www.equallogic.com/services/view.aspx>.

** Services may vary by region.



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