

# DELL EQUALLOGIC™ PS5000E



Dell EqualLogic PS5000E 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 SATA disk drives, the PS5000E delivers excellent cost-per-gigabyte and up to 16 TBs of high-capacity storage.

## EXCEPTIONAL EASE OF USE

The PS5000E 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 PS5000E 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 PS5000E Series is designed to meet and exceed the rugged requirements of the data center. The PS5000E includes fault tolerance capabilities through fully redundant and hot-swappable components — optional dual-controllers, standard dual fan trays, dual power supplies, and disk drives with hot spares.

## ENTERPRISE DATA SERVICES WITHOUT ADDITIONAL COST

The PS5000E 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:

- Auto-Replication
- Writeable Snapshots
- Automatic Load Balancing
- Auto-Snapshot Manager<sup>1</sup>
- Auto-Stat Disk Monitoring System
- Multi-Path I/O<sup>2</sup>
- PS Group Manager
- Pooled and Tiered Storage
- Snapshots and Auto-Replication Scheduler
- E-mail Home
- Smart Copy for Microsoft® Exchange®, SQL Server® and Windows® File Systems
- Roles-based Administration
- Storage Virtualization
- Thin Provisioning
- Volume Consistency Sets
- Volume Cloning
- Volume Management
- Volume Snapshot

<sup>1</sup>Qualified for Microsoft Windows Server® 2003

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

## FLEXIBILITY WITH LOW COST OF OWNERSHIP

EqualLogic PS5000E 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 PS5000E Series scales on-demand — and online — allowing storage growth without disrupting applications. As a result, EqualLogic PS5000E 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 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™ PS5000E											
<b>Product Configurations</b>													
Storage Controllers	Base Model: Single controller with 1 GB battery-backed memory, only available with 250 GB disk drive options High Availability Model: 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	Eight (8) or sixteen (16) SATA hot-pluggable hard disk drives												
Drive Capacities	7,200 RPM SATA II drives available in 250 GB, 500 GB, 750 GB, or 1 TB												
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<b>Technical Highlights</b>													
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 EqualLogic PS Series online												
<b>Reliability</b>	Redundant, hot-swappable controllers, power supplies / cooling fans, and disks Individual disk drive slot power control												
<b>Enclosure Monitoring System</b>	Automatic spare configuration and utilization SMART Automatic bad block replacement Auto-Stat Disk Monitoring System (ADMS) to monitor health of data on disk drives												
<b>Management Interfaces</b>	SNMP, telnet, SSH, HTTP, Web (SSL), host scripting Serial console Multi-administrator support												
<b>Security</b>	CHAP authentication Access control for iSCSI Access control for management interfaces including RADIUS support												
<b>Notification Methods</b>	SNMP traps, e-mail, syslog												
<b>Power</b>	AC voltage: 100-240 VAC ±10% single phase Frequency: 47-63 Hz Power factor: 0.98 (minimum) Power consumption: 450 VA, 530 PeakVA (operating maximum) Heat dissipation: 1,550 BTU per hour (maximum) Power supplies: Dual 440W dc												
<b>Environmental</b>	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												
<b>Physical</b>	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)												
<b>Customer Care Services Programs</b>	<b>Dell EqualLogic PS5000 Customer Care Plus:</b> 24-hour priority online/telephone access, software maintenance and updates, 4-hour onsite advance hardware replacement <b>Dell EqualLogic PS5000 Customer Care:</b> 24-hour priority online/telephone access, software maintenance and updates, next business day advance hardware replacement <b>Limited Warranty:</b> 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)												
<b>Additional Services</b>	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.*												

\* Services may vary by region.



# EQUALLOGIC

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