



EqualLogic™ Competitive Chart

Übereicht durch:



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Business Value	NetApp	HP P4000	Traditional Fiber Channel	Compellent
Performance	<ul style="list-style-type: none"> Direct access to block operations without a file system in the middle. Performance stays efficient and consistent during the day, over time and as the disk fills up. Scales controller performance without replacing expensive hardware or software. Scale-out controllers leverage 10Gbit connections. 	<ul style="list-style-type: none"> Shared access to disks eliminates the need to make extra copies that would require extra physical IO writes. Proven to deliver twice the performance per disk (when both solutions are configured per the user manual). Hardware-accelerated virtual machine operations. 	<ul style="list-style-type: none"> Proven to deliver better performance automatically, without complexity and tuning. Scale-out controllers and cache enables smart software to leverage disks efficiently, especially when keeping snapshots. Battery-backed cache allows caching to continue even if a UPS or power supply has failed. 	<ul style="list-style-type: none"> Vastly higher write cache allows more efficient use of disks (Compellent cache is limited by having 0.5GB of battery-protected space to mirror cache). Can write directly to SSD, while providing more SSD capacity. SSD caching in hybrid models absorbs large bursts and optimizes the writes to back-end disk. Hardware-integrated VM locking speeds booting.
Protection	<ul style="list-style-type: none"> Affordable application checking and recovery integration for SQL and Exchange. Compatible with standard third-party backup software. Hardware integrated VMware VM copy and recovery operations without forcing the whole solution to go through a file system layer. 	<ul style="list-style-type: none"> Provides enterprise-class protection without needing to make multiple copies of data. Application checking and recovery tools minimize application outages caused by viruses, bugs, crashes or human error. VMware integration makes hyper-visor consistent snapshots. 	<ul style="list-style-type: none"> Affordable and easy-to-use application checking and recovery integration. Make copies more frequently for more snapshots. Snapshots are maintained, even if you have to migrate the data. No performance penalty for moving data out of the way when writing new data. 	<ul style="list-style-type: none"> Add controller processing power without throwing out previous controllers. Make instant copies of volumes or snapshots. Instant copies can also have their own snapshots or replicas. Make space-efficient clones (only need the space in which the clone and the original diverge).
Flexibility	<ul style="list-style-type: none"> Single pool of controller performance automatically balances all your resources so you can apply them to any need without reconfiguration. Easy online data movement between tiers and different hardware generations. 	<ul style="list-style-type: none"> Mix different asset types without creating separate clusters or pools for each type. 	<ul style="list-style-type: none"> Move data to different disk layouts without losing snapshot and replication relationships. Make instant copies that can have their own replicas. Expand disk, controller, cache and port performance on the fly. 	<ul style="list-style-type: none"> Add controller processing power without throwing out the previous controllers. Make instant copies that can have their own replicas. Make space-efficient clones (only need the space in which the clone and the original diverge).
Cost	<ul style="list-style-type: none"> New features added at no additional cost. Year 4 and 5 support remains cost effective (e.g. no controller upgrade with new software). 	<ul style="list-style-type: none"> Higher yield of usable capacity (2 to 3 times more). Enterprise-class protection without requiring 3 to 4 copies of each block as stated in user manual (EQL does not require multiple copies per site for enterprise-class protection). 	<ul style="list-style-type: none"> New features added at no additional cost. Year 4 and 5 support remains cost effective. Meet performance needs using iSCSI. 	<ul style="list-style-type: none"> New features added at no additional cost. Year 4 and 5 support remains cost effective (e.g. no controller upgrade with new software).
Management	<ul style="list-style-type: none"> Manage storage as a unified pool, as opposed to separate pools for each controller. Easy tools for advanced features such as snapshot recovery and thin provisioning. 	<ul style="list-style-type: none"> Easy reporting of free space and tracking of project commitments for anticipated data loads or snapshot needs. Advanced central reporting and tracking of performance loads. 	<ul style="list-style-type: none"> Automated data placement without performance compromise. Application recovery tools allow you to recover individual objects or whole volumes. 	<ul style="list-style-type: none"> Get more performance from each tier. Get the capacity of RAID 50 with performance comparable to Compellent RAID 10. Self-managing performance: automatic balancing of controllers, pooling designed to allow each tier to contribute rather than using all IO on the smaller, faster tier.
TCO Summary	<ul style="list-style-type: none"> Fewer disks required to meet performance goals. Labor and training savings. 5-year assets don't need upgrades or excessive maintenance charges. 	<ul style="list-style-type: none"> Less disk, power and space required to meet performance needs, while providing enterprise-class protection. Easier management for space provisioning. Protect your investment: add new to the old without dumbing down the new. 	<ul style="list-style-type: none"> Labor and training savings. 5-year assets don't need upgrades or excessive maintenance charges. 	<ul style="list-style-type: none"> Get higher performance from each tier. Avoid complex rationing schemes for upper tiers. Zero software maintenance versus Compellent. Compellent has the highest software maintenance cost: 18% per year of the list price of software.
Ideal for Virtual Environments	<ul style="list-style-type: none"> Virtualization removes storage hassles such as controller balancing, migration between tiers, tuning and management of inconsistent performance. Hardware offload of operations on individual virtual machines stored in SAN with direct access to block data provides both flexibility and performance. 	<ul style="list-style-type: none"> Virtualization removes complexity related to hardware cycles. Allows different generations of hardware to work together without dumbing down the new to match the old. Leader in VMware integration (along with EMC, which owns VMware). Hardware offloaded per-VM operations for recovery, cloning, provisioning and booting. 	<ul style="list-style-type: none"> Virtualization removes hassles related to storage. No manual configuration of controller data, how data is tuned or arranged on disk. Avoid downtime, slowdowns, complexity and risk associated with adding or retiring storage hardware. Co-leader in VMware integration along with EMC and NetApp. 	<ul style="list-style-type: none"> No manual configuration of which controller has what data. Just as VMotion allows online server replacement, EqualLogic avoids downtime, slowdowns, complexity and risk associated with adding or retiring storage hardware. Co-leader in VMware integration along with EMC and NetApp. Hardware offloaded per-VM operations for recovery, cloning, provisioning and booting.
Key Competitor Shortcomings	<ul style="list-style-type: none"> No scale-out controllers when SAN (FC or iSCSI) is used. No direct access to block storage. Controllers are managed separately. Excessive software and maintenance cost. 	<ul style="list-style-type: none"> Extra copies required on disk to make cache redundant (2 to 4 copies required). Limited centralized performance tracking, lack of application checking, no solid state disk options. Behind on VMware integration. 	<ul style="list-style-type: none"> No scale-out controllers (hampers ability to leverage 10GbE). Excessive complexity without performance benefit, high software/hardware maintenance, especially after 5 years. Changing disk layouts or moving data can cause loss of snapshots, snapshots are limited. 	<ul style="list-style-type: none"> No scale out controllers, very small write cache (0.5GB total). Requires Fiber Channel in options where other vendors would use iSCSI. Complex tiering, as opposed to EQL, could be avoided with better software and cache. Solid state options don't apply to data that has been updated since making snapshots, SSD offers less capacity. No instant restore or copy function.