

Certeon® aCelera Sync and DELL® EqualLogic® PS Series iSCSI SANs

- Dramatically improve RTO and RPO goals
- Significantly decrease backup and replication times
- Increase backup and replication frequency
- Decrease network bandwidth requirements and reduce TCO
- Optimize industry-leading EqualLogic data recovery solutions

A wide area network (WAN) can significantly slow down data backup and replication processes between data centers and remote replication sites. Low bandwidth, latency, network congestion, and packet loss can interfere with an enterprise's ability to quickly and efficiently achieve recovery time objective (RTO) and recovery point objective (RPO) goals. Backup and replication operations can be delayed and disrupted due to slow data replication and long queuing times.

Certeon's aCelera Sync software, in conjunction with Dell EqualLogic SANs, enable more efficient and scalable data backup and replication over the WAN. aCelera Sync mitigates the effect of chatty protocols that are often associated with long backup windows by reducing the amount of traffic and round trips going over the WAN. It implements more efficient byte-level data differencing and reduction over the WAN and scales along with the storage capacity of EqualLogic SANs.

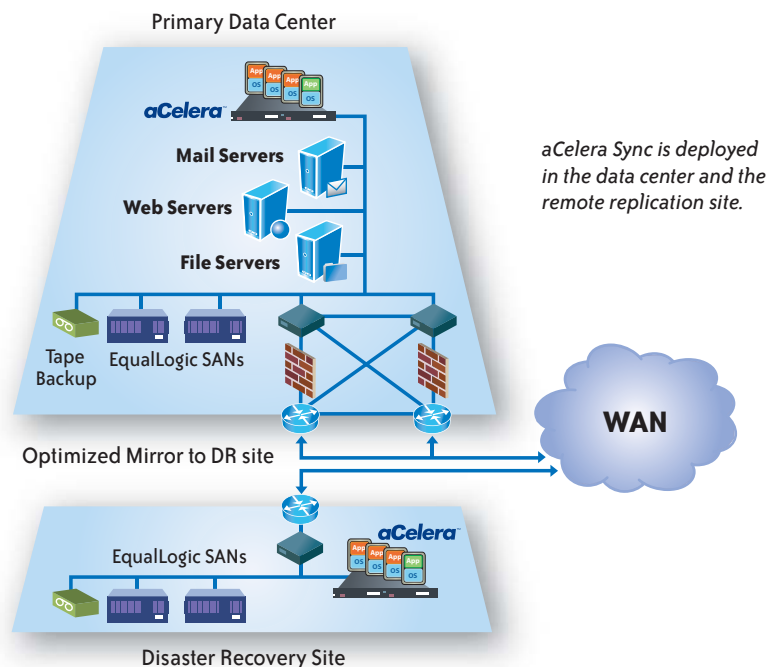
aCelera Sync is non-disruptive to existing business continuity applications and enables more frequent backup and replication. With aCelera Sync, enterprises can deploy Dell EqualLogic PS Series SAN solutions and deliver cost-efficient, real-time performance without adding expensive network bandwidth.

Virtualized WAN Optimization

aCelera Sync is a virtual machine (VM) that runs on industry-standard servers and is certified to run on the Dell PowerEdge series servers. aCelera Sync is supported on VMware® ESX and ESXi as well as Microsoft® Windows Server® 2008 Hyper-V™ hypervisors.

As business needs change, aCelera Sync leverages the scalability features of virtualized environments, allowing for increases in storage, CPUs, and memory, negating the need for forklift upgrades. Multiple VM instances can be provisioned to put backup and replication acceleration where it's needed, simplifying and reducing the overall cost of managing WAN optimization within remote replication sites. aCelera Sync performance can also scale parallel to EqualLogic SANs' linear scalability.

Along with the EqualLogic PS Series, aCelera Sync is flexible and easily deployed, allowing for storage growth without costly application disruptions or onsite service calls. aCelera Sync and EqualLogic SANs provide exceptional flexibility at a low total cost of ownership (TCO).



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Performance Results

Reducing Backup and Replication Times

aCelerator Sync reduces the total amount of data traffic going over the WAN. Less traffic means less congestion, resulting in faster backup and replication times, allowing for more frequent backup and replication.

For example, Certeon customer Boots & Coots International Well Control realized outstanding benefits using aCelerator Sync in their production environment, replicating 50 GB snapshots over 20 Mbps of network bandwidth between EqualLogic PS Series SANs over a WAN. They were able to reduce their backup and replication times by 90%, a threefold improvement over what they were getting with hardware WAN optimization appliances. This enabled Boots & Coots IT to perform backup and replication operations more frequently, without lengthy queues.

Reducing Bandwidth Requirements and TCO

aCelerator Sync also enabled Boots & Coots to decrease its bandwidth requirements by 90%, a savings of \$700 per month on incremental bandwidth costs. Overall, aCelerator Sync improved Boots & Coots' WAN optimization TCO by 50%, including a \$2,000 savings on annual maintenance.



Backup and Replication Operation Improvements with aCelerator Sync

Reduction in Backup and Replication Times	90% 3x faster than WAN hardware appliance Enables more frequent backup and replication
Reduction in Bandwidth Usage	86–92% A \$700 savings in monthly bandwidth costs
TCO	50% overall savings \$2,000/year maintenance savings

Source: Boots & Coots International Well Control

High Performing, Scalable, Cost-Efficient Business Continuity

Certeon's aCelerator Sync virtual appliance software enables IT managers to take full advantage of the backup and replication benefits offered by Dell EqualLogic SANs over a WAN. aCelerator Sync accelerates data replication by removing network barriers such as low bandwidth, latency, and network congestion. aCelerator Sync software installs seamlessly in an EqualLogic business continuity environment, significantly reducing backup and replication times and lowering network bandwidth requirements.

aCelerator Sync and EqualLogic SANs work together in a virtual infrastructure, providing enterprises with a scalable solution that delivers significantly optimized backup and replication performance across the WAN. aCelerator Sync, with EqualLogic SANs, enables enterprises to accelerate their ROI, as well as deliver better backup and replication performance that scales along with storage capacity.

aCelerator Sync software is more cost-effective than proprietary WAN optimization hardware appliances, saving IT capital and operations costs. aCelerator Sync can save IT managers up to 60% in TCO when compared with hardware appliances. IT managers will realize these cost savings in a number of ways, from their initial investment in the aCelerator Sync solutions to operations savings from managing complex, distributed business continuity environments.

Certeon's aCelerator Sync virtual appliance software works in concert with the Dell EqualLogic PS Series iSCSI storage arrays to enable high performance, scalable, and cost-efficient business continuity environments.



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