

DeltaStor

Data Deduplication Software

SEPATON DeltaStor® deduplication software enables the S2100®-ES2 VTL to control data growth, maintain backup windows, and significantly lengthen online retention times for faster restores and easier data access. DeltaStor enables enterprise-class data centers with large-scale primary storage environments to protect petabytes of data in a single system while realizing significant savings in data center space and power consumption.

Keep More Data Online Longer

DeltaStor reduces capacity requirements, enabling you to keep more data online at a cost-per-gigabyte-stored that is comparable to physical tape. Online storage means faster restores, more data accessibility, and the ability to meet more challenging service level agreements (SLAs).

DeltaStor software leverages SEPATON's patented DeltaScale™ architecture to analyze the commonalities and relationships between the documents in each backup set. It then focuses its examination on these documents, performing a byte-level comparison to previously stored data. This process makes DeltaStor significantly more efficient at reclaiming capacity.

Maintain Backup Windows

DeltaStor software performs data deduplication outside of the primary data path, concurrently with the backup process to move your data to the safety of the VTL faster. This process leverages the industry-leading throughput of the S2100-ES2 to backup data at unimpeded wire speed.

Restore Files Instantly

DeltaStor's unique forward differencing feature enables the VTL to restore data instantly. It stores a full copy of the most recent backup and replaces duplicate data in older backups with pointers to it. As a result, the VTL can restore the most commonly used files at wire speed with little or no reassembly.



DeltaStor software features a powerful web-based management console with user-customizable deduplication features and detailed reporting. DeltaStor gives you key information about your backup and restore processes and advanced capacity planning capabilities for maximum control of your VTL environment.

Scale Performance and Capacity

DeltaStor is the only technology that can scale deduplication processing across multiple SRE nodes for the fastest capacity reclamation in the industry. The unique DeltaScale architecture of the S2100-ES2 enables it to scale performance and capacity independently simply by adding SEPATON replication engine (SRE®) processing nodes or disk. The S2100-ES2 delivers industry-leading backup and restore performance and up to 1.6 TB of usable capacity (before deduplication) in a single VTL.

Advanced Customization

DeltaStor enables you to select the data you want to deduplicate by application, backup server, or backup software. You can also tune deduplication by data type for optimal efficiency and to support your backup policies. DeltaStor automatically uses one of two types of deduplication, based on the content of the backup.

Simplify Capacity Planning

DeltaStor gives you the information and power to control exponential data growth with ease. The advanced system capacity view provides a variety of key metrics, including snapshots of usable disk capacity, disk space consumed, and remaining capacity. When you are nearing a preset level of capacity usage, the system automatically notifies administrators by email to add capacity. The management console also provides a graph of the actual deduplication efficiency ratio and data capacity reclaimed. Powerful reporting capabilities simplify your capacity planning.

Reduce Space, Power Requirements

By storing more data in less space, DeltaStor software significantly lowers disk-related backup costs. For example, SEPATON S2100-ES2 VTLs with DeltaStor software have significantly lower and operating administration cost than any other backup solution. SEPATON VTLs also dramatically improve the overall reliability of your infrastructure by eliminating spinning disks, failed media, and many other common causes of failed backups.

SEPATON, S2100, and DeltaStor are registered trademarks and DeltaScale is a trademark of SEPATON, Inc. Other product and company names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

© 2009 SEPATON, Inc. All rights reserved.
DeltaStorDS0609V7-vp