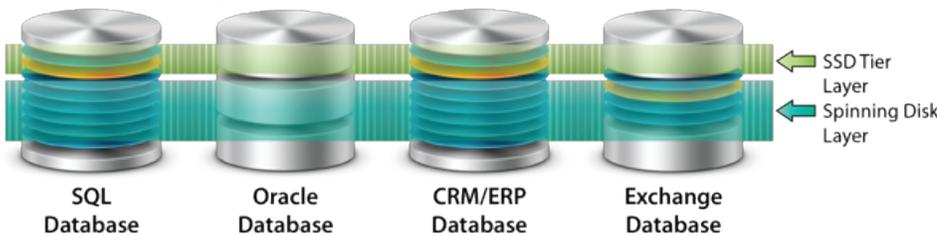


StorTrends Solutions for SQL

Databases can pose many challenges and obstacles to businesses and their environments. These challenges typically stem from Performance, Availability, Redundancy, and Cost requirements. The relationship between the SAN and SQL can be complicated. Understanding the relationship between memory (cache), data files, log files, and temporary DBs is very important.

On top of all of this is the base level of performance required by the SAN itself. How many IOPS does a SQL application need to run smoothly? What is the most frequently accessed data on the SQL server? How much of a SQL database should be on flash storage? These questions are only some of the most fundamental questions that need to be addressed to successfully implement SQL Server.

Hybrid Storage Model for Database Distribution



The StorTrends Advantages for SQL Databases

StorTrends provides high performance SAN arrays that give users the ability to drastically increase the performance and reliability of their SQL databases. The StorTrends 3500i SSD Hybrid Array was engineered to not only deliver the performance demanded by SQL databases, but also to intelligently monitor data access patterns and automatically adhere to users' SQL requirements.

Performance

A key part of any database deployment is its performance, and with SSDs declining in price, they are becoming a much more viable option for businesses. However, many storage vendors simply provide SSD hardware to handle performance demands. StorTrends offers SSDs as both an SSD cache and tier layer with features such as Automatically Tuned Volumes (ATV) that intelligently allocates high performance to users' most frequently accessed or critical data.

Availability

For many businesses, downtime of a SQL database is unacceptable. In many enterprises, even a maintenance window can be difficult to achieve. StorTrends offers dual controller models that support both Active/Active and Active/Pas-



Microsoft®
SQL Server®

"The StorTrends SAN arrays are working as expected. We see good I/O performance across the board and are highly impressed with the usability of StorTrends' ManageTrends™ software GUI. With the JBODs, we feel like we'll be able to meet the challenges of future data growth with little disruption to our business."

- Tony Taglieri, IT Director
Cambridge BioMarketing

"When used in a virtual server environment, we have found the StorTrends 3500i SSD Array delivers superior performance, reliability, and efficiency end-to-end. It has helped us achieve new levels of management flexibility with a total ownership cost that is lower than we could have imagined. This efficient solution has also helped us to reduce energy consumption costs and because it integrates seamlessly with VMware vSphere and Hyper-V we can deliver the flexible virtual server and virtual storage management options our customers both need and want."

- Jayesh Dave, CEO Avision
Technologies

sive configurations - providing availability of 99.999% for users' more pertinent SQL data.

Redundancy

The dual controller StorTrends appliance is equipped with a robust set of replication tools that allow replication of SQL data to users' offsite locations for disaster recovery or archival. Additionally, StorTrends is able to replicate between different products within the StorTrends family for a customizable solution. StorTrends replication technologies provide adaptive compression to reduce compression overhead, data de-duplication and a proprietary WAN Optimization tool to overcome latencies that are inherent with TCP/IP over a WAN.

Cost (CAPEX and OPEX)

To reduce upfront costs of SQL database deployments, StorTrends offers Thin Provisioning which lays the foundation for simple capacity growth and performance scaling. Additional cost savings are achieved with Auto-Tiering technology by reducing the number of higher performing expensive disk types and/or RAID sets, leaving the more expensive higher performing drives available for active data. This results in the more frequently accessed data to be stored in the highest data tier for faster service to the SQL databases and users. StorTrends also utilizes an elegant Workflow Management feature which will perform data migration during off peak times of operation, ensuring optimal performance for your database during peak operating hours. In the past, a company would need 96 spinning disks to provide the IOPs that are available in a single hybrid storage array, like the StorTrends 3500i. This means major savings on rack space, power, and management expenses as compared to spinning disk.

"We observed in our hands-on Technology Validation of the StorTrends 3500i array that AMI has crafted SSD into a mature, field-proven, and well-architected storage system. With a comprehensive set of storage features and an intriguingly flexible ability to integrate SSDs with the StorTrends cache and tiering architecture, the 3500i showed us that it is ready to deliver superb performance, extreme versatility, and serious value for mid-range storage customers," said Taneja Group Sr. Analyst Jeff Boles when asked about the report. "The NetNet is there is no need to look for alternatives to make solid state more affordable and practical for the mainstream - with the AMI StorTrends 3500i, it is clearly here."

- Jeff Boles, Taneja Group Sr. Analyst

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