NetApp®

VECTOR DATA ›››

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STORAGE SOLUTIONS

NETAPP FAS200 SERIES ENTRY ENTERPRISE STORAGE SYSTEMS

Compelling business value for small to medium-sized enterprises and remote offices.

BENEFITS

Instant Backup and Instant Recovery
Instant disk-based backup, with file or application-level recovery in seconds

Simple Replication and DR
Easy-to-deploy mirroring solution that's highly tolerant of WAN interruptions

Extreme Management Simplicity
On-the-fly provisioning; self-diagnosing systems with automated replacement parts delivery; self-service file recovery for end users

Cost Effective
FlexVol™ can double storage utilization, and both block and file storage can be consolidated into a single affordable system

THE CHALLENGE:
More Reliable Storage, Simpler Backups, and Practical Disaster Recovery

As businesses seek to unleash the value of their data, more demands are placed on IT teams to deliver reliable access to information, meet regulatory requirements, control costs, and adapt to new require-ments. Keeping the infrastructure easy to manage and reliable has become prob-lematic for growing companies—backup windows and processes have become more challenging in many organizations, especially remote offices, and updated DR strategies are frequently too complex to implement fully.

THE SOLUTION:
The NetApp FAS200 Series

NetApp FAS200 series products provide simple-to-manage, cost-effective enterprise-class storage with the flexibility to deliver combined multiprotocol file and block-level storage. The FAS200 series is fully compat-ible with the entire family of NetApp FAS systems and the common set of data-protection and management tools, improving productivity and offering a simple upgrade path as future demands grow.

KEEPING THE BUSINESS RUNNING

The low-overhead NetApp Snapshot™ technology provides the FAS200 series with the capability to instantly and auto-matically back up to disk and to recover to a point in time in seconds. The ability to instantly recover a single file, a single

mailbox, or an entire volume is a powerful tool for IT professionals. The process is so simple that end users can be authorized to recover their own lost files, releasing IT staff for more important tasks. Unlike typical competitive systems, NetApp Snapshot copies can be taken frequently and without adversely affecting system performance.

Data ONTAP® 7G, the storage operating system for the FAS200 series, also features dual-parity RAID that protects data even in the event of dual concurrent disk drive failure. RAID-DP™, the NetApp implementation of RAID 6, provides >4000x the data protection of single-parity RAID 5. Constant monitoring and predictive failure analysis combined with rapid RAID rebuild enable transparent background rebuild to a global hot spare, typically before a drive actually fails.

ELIMINATING TAPE

As part of a disk-to-disk backup strategy, the FAS200 can eliminate the need for tape backup at remote locations. The FAS200 system can act as a backup target or as a remote source backing up to a centralized site via NetApp SnapVault®.

SIMPLE REPLICATION AND DR

Easy data replication and disaster recovery are possible via NetApp SnapMirror® and simple iSCSI-based deployment; replica-tion can be implemented in minutes. The systems are highly resilient to network

interruptions because of the decoupling of the Snapshot and replication processes. The mirroring process is extremely efficient, minimizing consumption of network bandwidth and resulting in minimal performance impact.

COST-EFFECTIVE ENTERPRISE-CLASS STORAGE

With the ability to support CIFS and NFS file sharing and block-level storage, FAS200 systems make ideal storage-consolidation platforms for Windows®- and UNIX®-based servers, reducing cost by eliminating the management of disparate silos of storage associated with direct-attached storage. Support for iSCSI SAN enables simple, low-cost storage networks using existing infrastructure. In addition, the FAS270 adds Fibre Channel SAN support.

Data ONTAP 7G includes FlexVol, which can double storage utilization. FlexVol also allows capacity to be allocated and real-located on the fly, without disrupting users or applications. In addition it enables a technique called thin provisioning, in which the total storage allocated can exceed the physical storage and physical storage is added only when it is needed. The result is more efficient use of storage, lower costs, and reduced management effort.

FAS250

The FAS250 is the affordable entry point to the NetApp FAS family, enabling organizations to take advantage of the entire suite of NetApp data-protection and management tools. It is ideal for primary storage at smaller data centers, as simplified backup and replication targets at remote locations, and as part of a disaster recovery strategy.

FAS270

The FAS270 is the highly scalable and flexible enterprise-class storage solution that supports file and block storage over either iSCSI or Fibre Channel. A high-availability dual-controller option enables continuous operation for critical applications.

PROACTIVE SUPPORT

AutoSupport is a "phone home" self-diagnostic capability that is built into every FAS system. When enabled, this nonintrusive data collection and alerting mechanism sends messages back to NetApp services when it detects potential system problems. Messages are auto-matically analyzed against problem types and appropriate corrective actions are recommended.

Statistical analysis of the data provided by the FAS system frequently enables prediction of problems before they can interrupt operations. For example, a "failed disk" message automatically triggers the shipment of a replacement disk drive (according to the terms of the customer's maintenance agreement), often before the drive has actually failed. The result is simplified operations and better system availability.

ABOUT NETWORK APPLIANCE

Network Appliance is a world leader in unified storage solutions for today's data-intensive enterprise. Since its inception in 1992, Network Appliance has delivered technology, product, and partner firsts that simplify data management. Information about Network Appliance™ solutions and services is available at *www.netapp.com*.

SYSTEM SPECIFICATIONS	FAS250	FAS270
Max. Controllers	1	2
Max. Raw Capacity	4.2TB	16TB
Max. Number of Disk Drives	14	56
Max. Memory	512MB	2GB
Max. NVRAM	64MB	256MB
Max. I/O		
Ethernet 10/100/1000 Copper	2	4
Optical FC Adapter	1 (Tape)	2
Controller Failover-Capable	N/A	Optional

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