



**NetApp™**  
Go further, faster



Systems

# NetApp FAS6000 Series

Improve business responsiveness and lower TCO with our platform for your largest enterprise applications and storage consolidations

## KEY BENEFITS

### Respond to growth

When you're ready to grow, we help you with nondisruptive expansion and easy upgrades. You can grow to over 1100TB of storage capacity.

### Meet diverse needs

You can use our FAS6000 systems for primary and secondary storage with simultaneous block and file serving over Fibre Channel and Ethernet networks.

### Increase performance

Get high throughput and fast response times for transaction processing, databases, and technical applications.

### Improve application availability

Get application-level recovery in minutes, not hours.

### Lower TCO

With simplified deployment, administration, and management, you can enjoy lower total cost of ownership.

## THE CHALLENGE

### Maximizing your business advantage

Enterprises across all industries face similar data management demands as business needs rapidly evolve and data grows at an unrelenting pace. As a result, you are under constant pressure to deliver more and at higher levels of service. Yet critical resources—staffing, budget, power, cooling, and floor space—are frequently constrained.

To meet these demands, you need enterprise storage systems that can:

- Flex to support changing IT requirements
- Accommodate continuous data growth
- Satisfy application-level service requirements
- Reduce costs

## THE SOLUTION

### NetApp® FAS6000 series for the largest enterprise applications and storage consolidations

With our FAS6000 series you can efficiently consolidate SAN, NAS, primary, and secondary storage on a single platform. You get the ultimate in scalability, versatility, and availability when you use our flagship FAS6000 series.

We've designed our systems to make them easy for you to install, configure, manage, and upgrade so you can quickly adapt your

storage infrastructure to meet your changing business needs. To help you maximize staff productivity, all of our FAS systems share a unified storage architecture based on the Data ONTAP® 7G operating system and use our integrated suite of application-aware manageability software. You can minimize the use of data center resources including—power, cooling, and floor space—by taking advantage of our comprehensive set of storage-saving software features in Data ONTAP.

When you add massive scalability to other characteristics of the FAS family, the result is our FAS6000 series, the ideal platform for the largest applications and storage consolidations.

## RESPOND QUICKLY TO GROWTH

With our flagship FAS6080 and FAS6040 systems, you can grow without worrying about complicated system replacement. What sets our systems apart is their massive storage and I/O scalability.

## MEET DIVERSE NEEDS

With our unified architecture, you no longer need to manage separate NAS and SAN storage. You can manage both in a single system with our concurrent support for block and file protocols using Ethernet and Fibre Channel interfaces, found in all of our FAS systems.

In addition, you can manage tiered primary and secondary storage by using high-performance FC hard disk drives and high-capacity SATA drives in your FAS6000 systems.

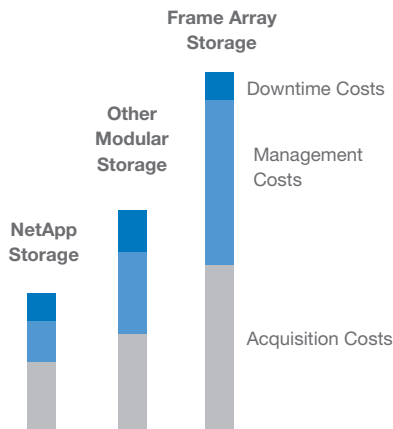
FlexClone,® part of our Data ONTAP operating system, lets you instantly create clones with very little incremental storage cost. You can use FlexClone to dramatically accelerate test and development cycles for your IT projects.

### INCREASE PERFORMANCE

Your important applications require quick response, even during times of heavy loading. To ensure fast response time when serving data for multiple applications, we include FlexShare™ quality-of-service software as part of our Data ONTAP operating system. FlexShare allows your storage administrators to set and dynamically adjust workload priorities.

Our FAS6000 series has the muscle to consolidate and serve data for a wide variety of workloads, including:

- Business applications
- Technical applications
- Databases



**Figure 1) Proven lower TCO.** Studies by Mercer Management Consulting show that your total cost of ownership for our storage systems is substantially lower than that of storage from other major vendors. Read the full reports at [www.netapp.com/tco](http://www.netapp.com/tco).

- E-mail
- Home directories
- Digital media
- Backup and recovery
- Archiving

All of our NetApp FAS storage systems support Windows,® UNIX,® and Linux® host operating systems, as well as VMware® server virtualization.

### IMPROVE RESILIENCY AND AVAILABILITY

To give you resilient system operation and high data availability, we tightly integrate our hardware systems with the Data ONTAP 7G operating system. Our FAS systems use redundant, hot-swappable components, and with our patented dual-parity RAID-DP™ (our high-performance RAID 6), you get superior data protection with little or no performance loss. For the highest levels of data availability, we provide optional mirroring and disaster recovery solutions.

You can simultaneously protect your production data while taking nothing away from your system's performance with our FAS6000 series. With our Snapshot™ technology you get near-instantaneous file-level or full data set recovery, while using

a very small amount of storage. Snapshot creates up to 255 data-in-place, point-in-time images per LUN or file system.

### PARTNER FOR SUCCESS

To help enable your success, our Global Services professionals work side by side with you. We offer a comprehensive portfolio of support and service options that you can tailor to meet the needs of your data center.

Our ConsultingEdge plan provides you with a complete, flexible set of consulting services to help you plan, implement, and optimize your storage infrastructure.

Our SupportEdge Premium offers you a hybrid approach to support. It combines expert on-site resources with innovative remote capabilities. SupportEdge Premium services include:

- Hardware and software installation
- System monitoring
- Proactive notification
- Immediate reactive support
- Remote diagnostics
- A blend of remote and on-site repair
- Quarterly storage availability audits
- Software subscription plan



| FAS6000 SERIES OVERVIEW           | FAS6040   | FAS6080 |
|-----------------------------------|---|---------|
| <b>Storage networking support</b> | FC SAN (FCP), IP SAN (iSCSI, FCoE), NAS (NFS, CIFS) |         |
| <b>Maximum raw capacity</b>       | 840TB   | 1176TB  |
| <b>Maximum disk drives</b>        | 840   | 1176    |
| <b>Controller architecture</b>    | 64-bit  | 64-bit  |
| <b>Memory</b>                     | 32GB  | 64GB    |
| <b>Maximum 4Gb/sec FC ports</b>   | 80  | 80      |
| <b>Support for 8Gb/sec FC</b>     | ✓   | ✓       |
| <b>Maximum Ethernet ports</b>     | 76  | 76      |
| <b>10GbE support</b>              | ✓   | ✓       |

Notes:

1. Specifications listed here are for active, dual controller configurations.
2. Maximum ports specification combines integrated ports with I/O expansion cards.