

## SYSTEMS

# FAS3000 SERIES ENTERPRISE STORAGE SYSTEMS

**Versatile, scalable, reliable storage systems—with exceptional value—for both SAN and NAS applications and consolidations.**



### BENEFITS

#### Value

Excellent performance and proven lower TCO for SAN-based business applications

#### Application Availability

Application-level recovery in minutes, not hours

#### Scalability

Nondisruptive capacity expansion and easy upgrades

#### Versatility

Primary and secondary storage with simultaneous block and file serving over Fibre Channel and Ethernet networks

### THE CHALLENGE: Managing Data for Maximum Business Advantage

Expectations are high for IT professionals to manage, protect, and use data for maximum business advantage. And they must do this while delivering high levels of service, holding down costs, meeting regulatory requirements, and adapting to continuous change.

These requirements call for networked storage systems that can consolidate data from multiple sources for use by many applications. New enterprise storage systems must provide high levels of application availability, scale with ease, improve IT staff productivity, and deliver high performance while reducing overall costs.

### THE SOLUTION: NetApp FAS3000 Series

The NetApp FAS3000 series delivers outstanding value through excellent performance, best-in-class scalability, and proven lower TCO than other mid-range storage systems.

These enterprise storage systems have the versatility to simultaneously meet diverse needs—SAN and NAS, primary and secondary storage—while providing high levels of availability. The FAS3000 systems handle complex requirements in a way that actually simplifies the storage infrastructure and improves productivity.

The FAS3000 series is fully compatible with the broad family of NetApp FAS systems, which meet a range of storage needs, from small remote office and departmental applications through the largest enterprise applications and consolidations.

### HIGH PERFORMANCE, HIGH AVAILABILITY, AND OUTSTANDING VALUE

#### Performance

The NetApp FAS3000 series delivers excellent performance, whether the storage need is for SAN-based business applications, technical applications, or home directories. With large cache memory configurations, expandable high-performance I/O, 4-gigabit FC SAN support, and support for 10-Gigabit Ethernet, the FAS3000 systems deliver exceptional midrange systems performance.

Complementing high-performance hardware capabilities, FlexVol™, a feature of the Data ONTAP® 7G operating system, eliminates performance bottlenecks for spindle-bound applications by striping data across a larger set of disk drives.

#### Availability

Achieve superior application availability with FAS3000 systems via Snapshot™ copies, storage resiliency features, and disaster recovery options. Low-overhead Snapshot technology enables file- or

**Table 1) Selection table for FAS3000 series.**

	FAS3020	FAS3040	FAS3050	FAS3070
Maximum Raw Capacity	84TB	126TB	168TB	252TB
Maximum Disk Drives (FC, SATA, or mix)	168	252	336	504
Controller Architecture	32-bit	64-bit	32-bit	64-bit
Cache Memory	4GB	8GB	8GB	16GB
Maximum Fibre Channel Ports	20	32	20	32
Maximum Ethernet Ports	24	32	24	32
Storage Protocols	FCP, iSCSI, NFS, CIFS	FCP, iSCSI, NFS, CIFS	FCP, iSCSI, NFS, CIFS	FCP, iSCSI, NFS, CIFS

Notes: 1. Specifications listed here are for active/active, dual-controller configurations.  
 2. Maximum Ports combines integrated ports with I/O expansion cards.  
 3. FAS3000 systems support both 2Gb and 4Gb Fibre Channel interface ports.

application-level recovery in minutes, not hours, after human error or an application failure. A comprehensive set of storage resiliency features, including RAID-DP™ (the NetApp high-performance implementation of RAID 6,) ensures that FAS3000 storage systems are always up and running. And NetApp offers a suite of disaster recovery products for protection against catastrophic events.

**Outstanding Value**

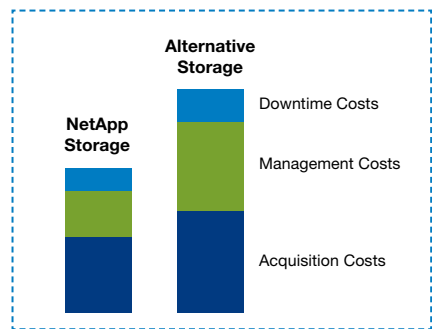
Network Appliance delivers outstanding value with the FAS3000 series by reducing costs in all aspects of storage ownership. The superior protection of RAID-DP gives NetApp the unique ability to leverage large, low-cost SATA disk drives for production applications. FlexVol and FlexClone™, features of Data ONTAP 7G, maximize storage utilization and provide unmatched management simplicity that dramatically reduces administrative costs.

**ENABLING UNSURPASSED BUSINESS RESPONSIVENESS**

The FAS3000 series provides a level of flexibility that combines with the administrative ease of Data ONTAP 7G and NetApp management tools to enable unsurpassed business responsiveness.

Both high-performance Fibre Channel and low-cost SATA disk drives can be used as needed for primary and secondary storage. Block and file storage can be seamlessly consolidated on the same system. This is made possible through native support of the FCP, iSCSI, NFS, and CIFS storage protocols via Fibre Channel and Ethernet interfaces.

With most systems, consolidation of data from dissimilar workloads can result in poor response times during peak hours of operation. However, NetApp FlexShare™



**Figure 1) Proven lower TCO.**

Studies by Mercer Management Consulting show the cost of ownership for NetApp storage systems is substantially lower than alternative storage from major vendors. Read the full reports at [www.netapp.com/tco](http://www.netapp.com/tco).

allows storage administrators to set and dynamically adjust workload priorities to ensure that important applications always get fast response.

Business responsiveness is further enabled with the powerful capability to easily shrink or expand volumes on the fly with just a few simple commands.

FAS3000 systems are fully RoHS compliant, and can be easily expanded as required by the growth of application data.

NetApp also provides easy upgrade paths to systems with higher performance and capacity while preserving investments in storage and staff expertise.

**COMPREHENSIVE SERVICES**

NetApp Global Services provides the comprehensive support and services required in the enterprise data center.

NetApp ConsultingEdge provides a complete, flexible set of consulting services to help you plan, implement, and optimize storage solutions.

NetApp SupportEdge Premium offers a hybrid approach to support, combining expert on-site resources with innovative remote capabilities. SupportEdge Premium includes hardware and software installation, system monitoring, proactive notification, immediate reactive support, remote diagnostics, and a blend of remote and on-site repair. Quarterly storage availability audits and a software subscription plan are also included.

**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](http://www.netapp.com).

