



**NetApp™**  
Go further, faster



Systems

# NetApp FAS3100 Series

Do more for your business than you thought possible with a storage system

## KEY BENEFITS

### Meet diverse and changing needs

Consolidate diverse data sets onto a unified storage platform that provides simultaneous block and file services for business and technical applications.

### Perform when your applications need it most

Compelling file- and transaction-based performance with high bandwidth, 64-bit architecture, and the latest I/O technologies including support for 8Gb Fibre Channel connectivity.

### Respond to growth

Thin provisioning helps you eliminate stranded storage. Preserve investments in staff expertise and capital equipment with data-in-place upgrades to more powerful FAS systems while running the same OS and using the same management tools.

### Do more with less

Highly efficient storage utilization makes it possible for you to dramatically reduce your consumption of raw storage, power, cooling, and space.

## THE CHALLENGE

Today's business environment demands innovation and increasingly flawless execution. You are asked to manage and protect valuable data to enable business growth and success. Change is continuous and you must evolve your IT operations while adhering to hard limits for budget, staffing, and infrastructure. Virtualized computing, the latest wave of change, is quickly becoming the norm. It calls for networked storage systems that you can use to consolidate diverse data sets and unlock the full potential of virtualized servers.

## THE SOLUTION

### NetApp® FAS3100 series featuring Data ONTAP

Now you can simultaneously meet your diverse needs—SAN and NAS, primary and secondary storage—while providing high levels of application availability for everything from your critical business operations to technical applications. With NetApp® FAS3100 series systems, you get outstanding value: our flexible systems offer excellent performance and impressive scalability at a lower total cost of ownership than other midrange storage systems.

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

storage infrastructure to meet your changing business and technical needs. To help you maximize staff productivity, all NetApp FAS systems run the Data ONTAP® 7G operating system and use the same suite of application-aware management software.

## FLEXIBLE ENOUGH TO MEET YOUR DIVERSE AND CHANGING NEEDS

You need a versatile platform that can handle the huge amount of diverse data moving through your business. Now you can consolidate these varied data sets onto a unified storage platform that provides simultaneous block and file services for business and technical applications. With the NetApp FAS3100 series, you can unlock the full potential of your growing virtualized server environment by enabling virtual machine mobility and offloading the work of data protection. Our FAS3100 systems enable you to connect your heterogeneous server environment (including Windows®, UNIX®, and Linux® servers) and clients to one storage system by using standard storage protocols and interfaces.

## INCREASE YOUR DATA AND APPLICATION AVAILABILITY

With less time spent on backup and recovery, you can focus your energy and creativity on growing your business. Our full range of enterprise-class high-availability

and disaster recovery products provide affordable software for data protection that enables you to safeguard more of your business-critical applications than would be possible with other storage. NetApp's Snapshot™ capability reduces backup times to minutes; SnapRestore® recovers point-in-time data, also in minutes. SnapManager® quickly returns applications to the same point in time as recovered data. All of this built on the solid foundation of our low overhead, dual parity RAID-DP® — NetApp's high-performance RAID 6 that offers better data protection and capacity utilization than RAID 5 and RAID 1+0.

### PERFORM WHEN YOUR APPLICATIONS NEED IT MOST

The NetApp FAS3100 series offers compelling performance across a wide range of application workloads—file services, OLTP, and messaging and collaboration, to name just a few. Our high-bandwidth, 64-bit controller architecture with large memory cache and the latest I/O technologies (including support for 8Gb FC and 10Gb Ethernet connectivity) provides data at the rates you need to keep the most demanding business and technical applications running smoothly. Your critical applications can take priority under peak load conditions with our FlexShare™ quality of service software. Features such as these enable you to meet demanding service levels and achieve a

faster time to market for your critical new products and services.

### RESPOND TO YOUR GROWTH

In today's business environment, the data your systems collect grows relentlessly, regardless of your company's size. With NetApp's flexible FAS3100 series, you can combine high-performance Fibre Channel and large-capacity SATA disk drives in storage tiers for optimal performance and cost. And on the same system, you can seamlessly consolidate block and file storage. We make this possible by providing native support of the FCP, iSCSI, FCoE, NFS, and CIFS storage protocols via both Fibre Channel and Ethernet interfaces.

NetApp's innovative thin provisioning capability helps you eliminate stranded storage by instantly expanding or contracting LUNs and volumes by using a common pool of spare capacity. When more performance or scalability is required, you can preserve investments in staff expertise and capital equipment with data-in-place upgrades to more powerful FAS systems that are running the same Data ONTAP operating system and using the same management tools.

### DO MORE WITH YOUR CURRENT BUDGET, STAFF, AND INFRASTRUCTURE

We can help you reduce costs in all aspects of your storage environment by simplifying

data management and maximizing storage utilization to conserve raw storage, power, cooling, and data center space. You'll spend less time waiting and more time innovating, thanks to high system performance, fast backup and recovery, and rapid cloning of data sets.

### PARTNER FOR SUCCESS

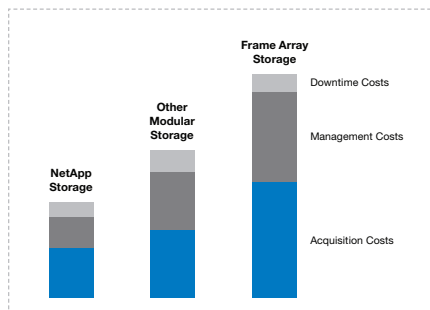
To help enable your success, NetApp Global Services professionals work side by side with you. We offer a comprehensive portfolio of support and service options that you can tailor to meet the needs of your data center.

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

Our SupportEdge Premium offers a hybrid approach to support, combining 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

Figure 1) Proven Lower TCO



Studies by Oliver Wyman show that the total cost of ownership for NetApp 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).

FAS3100 SERIES OVERVIEW	FAS3140	FAS3160	FAS3170
<b>Storage networking support</b>	FC SAN (FCP), IP SAN (iSCSI, FCoE), NAS (NFS, CIFS)		
<b>Maximum raw capacity</b>	420TB	672TB	840TB
<b>Maximum disk drives</b>	420	672	840
<b>Controller architecture</b>	64-bit	64-bit	64-bit
<b>Controller form factor</b>	1 or 2 controllers in a single 6U chassis	1 or 2 controllers in a single 6U chassis	1 or 2 controllers in a single 6U chassis
<b>Memory</b>	8GB	16GB	32GB
<b>Maximum 4Gb/sec FC ports</b>	40	40	40
<b>Support for 8Gb/sec FC</b>	✓	✓	✓
<b>Maximum Ethernet ports</b>	36	36	36
<b>10GbE support</b>	✓	✓	✓

Notes:

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

NetApp creates innovative storage and data management solutions that accelerate business breakthroughs and deliver outstanding cost efficiency. Discover our passion for helping companies around the world go further, faster at [www.netapp.com](http://www.netapp.com).

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