

# Veritas Storage Foundation™ Management Server

Centralized management of heterogeneous applications, servers, and storage

Storage Foundation Management Server provides centralized application, server, and storage management capabilities across a broad array of operating systems and storage hardware. For the first time administrators can centrally manage data center environments running different operating systems, servers, and storage arrays. Administrators no longer need to rely on a range of point solutions that don't function across different platforms and can focus on improving operational efficiencies.

## Highlights

- Centralized visibility into data center infrastructure**—Comprehensive visibility and centralized management of diverse applications, servers, and storage. Administrators can view and centrally manage applications, servers and storage throughout their Veritas Storage Foundation environment.
- Active monitoring of application, server and storage resources**—A summary dashboard easily identifies status of resources within infrastructure and allows administrators to proactively take corrective action.
- Alerts and reporting**—Alert notifications and consolidated reporting allow for rapid problem resolution.
- Automation of storage management functions**—Over 250 guided operations are available to enable repeatable administrator processes.

## Centralized visibility into data center infrastructure

Storage Foundation Management Server allows organizations to centrally manage application, server, and storage environments from a secure web-based console. With a summary dashboard that displays the state of these resources, administrators are able to monitor their data center infrastructure and quickly drill down to manage any risks or faults in the environment.

The dashboard quickly provides information by collecting data from hundreds of Storage Foundation hosts and giving a detailed view of the underlying infrastructure. This includes the number and status of application groups and databases, operating system details, status of host bus adapters (HBAs), disks, disk groups, volume and enclosures. This visibility allows administrators to quickly identify the root cause of faults and repair them online, leading to faster application deployment times, higher service levels, and reduced risk of human error.

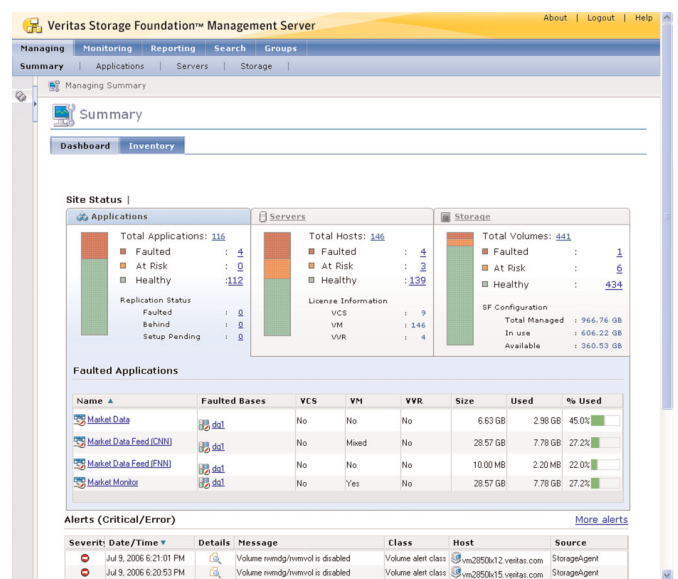


Figure 1. The Veritas Storage Foundation Management Server provides centralized visibility and management across diverse applications, servers and storage.



### **Active monitoring of application, server, and storage resources**

The summary dashboard of Storage Foundation Management Server allows administrators to quickly view the state of their resources and drill down for more granularity on their infrastructure. Healthy, at risk, and faulted applications, servers, and storage can be monitored in real time along with the dependencies between the underlying objects. When a failure occurs, such as a faulted disk group, administrators can then directly map that failure to the application(s) that it is affecting. Rather than wasting hours trying to troubleshoot an error and determine where the fault occurred, Storage Foundation Management Server correlates that information from a central interface, discovers the dependencies in the environment, and allows administrators to rebuild the faulted object with just a few clicks. This creates a reasonable way of managing and compressing the time it takes to solve problems.

Storage Foundation Management Server also provides a holistic view of replicated applications that are protected by the Veritas™ Volume Replicator Option by Symantec, allowing real-time visibility into the organization's disaster recovery strategy. With Storage Foundation Management Server, administrators can look at a particular application and see which replication hosts are protected or at risk. These hosts can then be managed and replication links can be created where needed.

### **Alerts and reporting for rapid problem resolution**

Storage Foundation Management Server provides alert and reporting capabilities designed to alert administrators to faults in their environment, providing visibility into problems before they affect business operations. Detailed alerts include identification of problems such as faulted applications, databases, hosts, volumes, disk groups, etc.—all the way to a granular level of disks, arrays, and LUN sizes. This visual matrix of the data center infrastructure allows rapid identification of components upon which applications/databases rely. Problem identification and resolution are dramatically reduced and free administrators from constant troubleshooting to more proactive management of their environment.

A range of reporting choices are also available, allowing both functional and business-level reporting that enables IT management to identify and report on risk within the data center infrastructure. Such risk may be caused by architectural choices, use of expired evaluation keys, service-level agreement compliance, application version control to achieve uniform certification compliance, or HBA inventories.

---

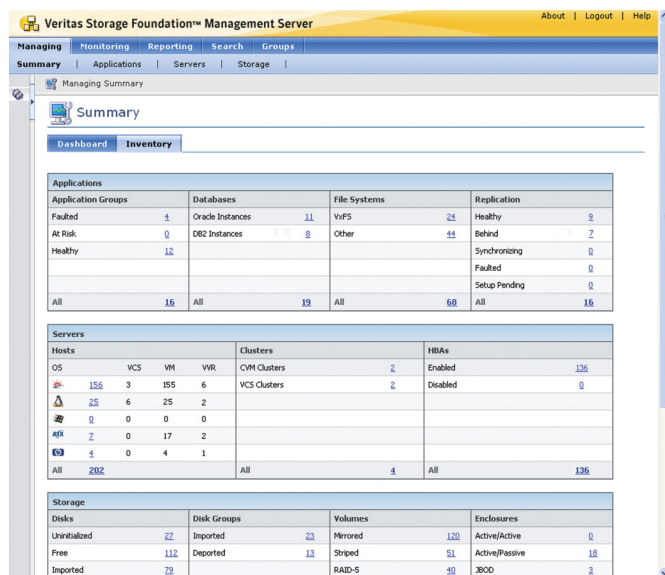
### **Automation of storage management functions**

With over 250 guided operations, Storage Foundation Management Server enables the automation of many routine storage functions. Administrators can quickly and easily perform tasks such as creation and migration of disk groups, volumes, and snapshots; application creation; host discovery; snapshot resyncs; volume mirroring; and replication administration. By simplifying tasks that are time-consuming and would normally be done manually,

## Data Sheet: Storage Management Veritas Storage Foundation Management Server

Storage Foundation Management Server allows administrators to more effectively utilize their time and improve operational efficiencies.

In the past, problem resolution could take hours as administrators tried to manually track down the root cause of a fault. With Storage Foundation Management Server, there is a complete inventory of devices in the environment, including detailed device discovery such as drivers, firmware, vendor, and version. This direct correlation allows server, storage, and database administrators to more easily communicate and plan downtime that won't affect mission-critical applications.



The screenshot displays the Veritas Storage Foundation Management Server interface. The main content area is titled 'Summary' and contains three tables: Applications, Servers, and Storage. Each table provides a breakdown of resources by status or type.

Applications			
Application Groups	Databases	File Systems	Replication
Faulted	Oracle Instances 11	VxFS 24	Healthy 2
At Risk	DB2 Instances 8	Other 44	Behind 7
Healthy			Synchronizing 0
			Faulted 0
			Setup Pending 0
All	All 19	All 68	All 16

Servers			
Hosts	Clusters	HBAs	
OS	VM Clusters 2	Enabled	136
VCS	VCS Clusters 2	Disabled	0
VX			
VM			
VX			
VX			
VX			
All	All 4	All	136

Storage			
Disks	Disk Groups	Volumes	Enclosures
Uninitialized 27	Imported 23	Mirrored 120	Active/Active 0
Free 112	Deported 13	Striped 51	Active/Passive 18
Imported 73		RAID-5 40	JBOD 3

Figure 2. A complete inventory of resources is presented in a single view.

### More information

Visit our Web site

<http://enterprise.symantec.com>

To speak with a Product Specialist in the U.S.

Call toll-free 1 (800) 745 6054

To speak with a Product Specialist outside the U.S.

For specific country offices and contact numbers, please visit our Web site.

### About Symantec

Symantec is the world leader in providing solutions to help individuals and enterprises assure the security, availability, and integrity of their information. Headquartered in Cupertino, Calif., Symantec has operations in more than 40 countries. More information is available at [www.symantec.com](http://www.symantec.com).

### Symantec World Headquarters

20330 Stevens Creek Boulevard

Cupertino, CA 95014 USA

+1 (408) 517 8000

1 (800) 721 3934

[www.symantec.com](http://www.symantec.com)

