

Veritas CommandCentral™ Storage by Symantec

Transforming SRM into storage as a service

Veritas CommandCentral Storage is a comprehensive software solution that seamlessly integrates storage resource management, performance and policy management, and storage provisioning capabilities to ensure that the storage infrastructure runs efficiently. The active management of storage resources (from application to array) is a necessity to satisfy service-level agreements while ensuring optimal performance and availability of business-critical applications. In addition, Veritas CommandCentral Storage offers customizable policy-based management to automate notification, recovery, and other user-definable actions.

CommandCentral Storage introduces a highly centralized approach to managing storage, which increases the accountability of IT organizations to meet the storage needs of a diverse and large set of applications for the various organizations being served. CommandCentral Storage is able to automatically discover critical applications such as Oracle® databases and Microsoft® Exchange as well as infrastructure applications. This means that administrators can now proactively manage applications and their associated resources, ensuring effective service-level agreements by applying quality of service policies to the entire data path. Provided with a clear and comprehensive understanding of the relationship between applications and their resources, administrators now have complete visibility, control, and management.

CommandCentral Storage provides companies with a hardware-independent solution that can be applied to service requests for online storage management, backup/recovery, and high availability services. This complete solution is designed to support centers of competency

and serves as a business portal for IT to define infrastructure services and implement consistent and efficient processes for delivering those services. Moreover, IT organizations can present those services to the business, measure and report on unique service levels and resource usage, and based upon services consumed, charge the individual business or department.

Highlights

- **Centralized storage management**—Integrates storage resource management, performance and policy management, storage provisioning, and SAN management
- **Application-centric visibility**—Distills storage data into meaningful reports, charts, and graphs, assisting in making tactical and strategic decisions
- **Capacity and performance management**—Enables visibility into the relationship between applications and resources
- **End-to-end storage provisioning**—Rapidly provisions storage from the subsystem, through the SAN, and to the application
- **Policy-based management**—Increases administrator efficiency by constantly monitoring, alerting, and taking corrective action when an event occurs with policy-based management
- **Business-level visibility**—Provides a portal view into the storage resources and services being consumed by the business and applications



Centralized storage management

CommandCentral Storage addresses key IT challenges in managing complex storage environments while allowing IT organizations to recognize an immediate return on their infrastructure investment. With CommandCentral Storage administrators have a single, centralized, consistent storage management interface to simplify the complex tasks involved in managing and monitoring a multi-vendor storage environment. With an intuitive and easy-to-use graphical user interface, administrators can view an entire storage network from the highest level down to the disk spindle and resource relationships. These flexible views give administrators the ability to easily navigate, monitor and manage a growing enterprise storage network.

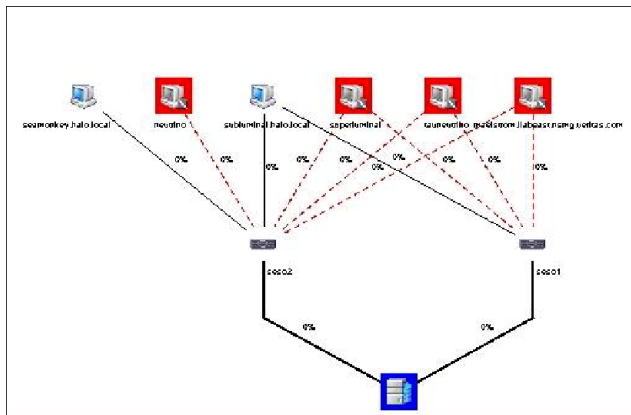


Figure 1. End-to-End views in the Topology Window

Application-centric visibility

CommandCentral Storage provides a centralized approach to managing storage, which increases the ability of IT organizations to meet the storage needs of a diverse and large set of applications for the various organizations being served. CommandCentral Storage is able to automatically discover critical applications such as Oracle databases and Microsoft Exchange as well as Symantec infrastructure

applications such as Veritas NetBackup,™ Veritas™ Cluster Server, and Veritas Storage Foundation.™ This means that administrators can now proactively manage applications and their associated resources, ensuring effective service-level agreements by applying quality of service policies throughout the entire data path. Provided, and empowered, with a clear and comprehensive understanding of the relationship between applications and their resources, administrators have complete visibility, control, and management.

Capacity and performance management

CommandCentral Storage provides an in-depth view into storage and device details (i.e. storage arrays) not easily obtainable through manual processes. It is able to discern the critical difference between storage that has been formatted and allocated to applications and databases and the storage that's actually being utilized by the applications. Using this information with real-time and historical information, forward projections are available to build capacity trending reports, enabling IT organizations to optimize storage hardware acquisitions by accurately estimating storage requirements for databases, email applications, servers, and other consumers across SAN, NAS, and DAS architectures—all from a centralized console. Additionally, finding a means of maximizing the utility of existing resources, while allowing for this flexible and cost-effective deployment of new storage, is of paramount importance to IT executives. CommandCentral Storage holds the key to solving this problem. A software-centric approach to architecting a storage infrastructure offers the only hope of boosting administrator productivity, controlling management costs, and providing a solid foundation for managing future enterprise storage growth.



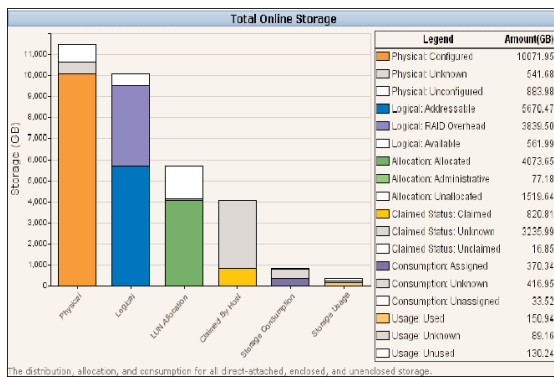


Figure 2. Total Online Capacity Report

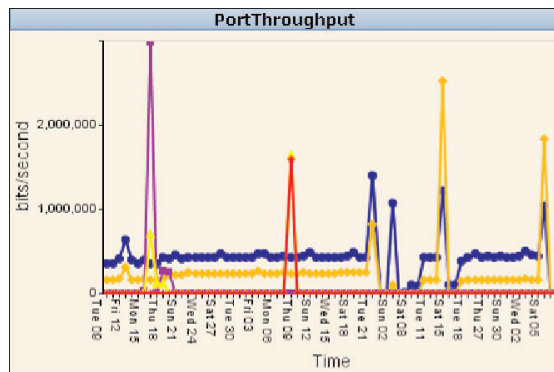


Figure 3. Switch Performance Statistics

End-to-end storage provisioning

CommandCentral Storage addresses the critical issue of reducing the time it takes for new storage to be provisioned, or assigned, to an application and brought online. Efficient storage provisioning ensures that storage can be delivered in a timely fashion to the storage consumer. “End-to-end” provisioning means that CommandCentral Storage allows storage provisioning from LUN creation within an array to zoning to the presentation of storage to a host from a single management console.

Policy-based management

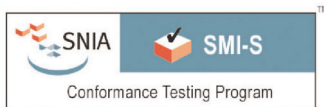
Policy-based management ensures that service levels are met by alerting IT organizations to possible issues as they arise, before they become critical. CommandCentral Storage is designed to proactively manage the storage infrastructure from an application perspective, optimizing utilization of shared storage and hardware assets. To ensure that storage and data are operating at expected levels, IT organizations must be able to recognize and respond to problems on the storage network. Using information displayed in CommandCentral Storage, users can identify potential problems easily and quickly, and can promptly—often automatically—initiate the necessary recovery actions.

Business-level visibility

Integration with Veritas CommandCentral Service enables organizations to move toward a shared services—or utility computing—model, where IT acts as a service provider to its various customers. CommandCentral Service allows IT organizations to define services being offered, present those services to consumers, measure and report on service levels and resource usage, automate provisioning processes through an embedded workflow engine, and allocate costs for services used. CommandCentral Service then becomes a portal or interface between IT and its consumers. The service levels that consumers define subsequently map to service implementations in underlying Veritas and third-party products. In this way, IT becomes more transparent, measurable, and aligned with the larger objectives of the business.

Industry standards support

CommandCentral Storage supports many industry standards, including support for the CIM/SMI-S storage management standard that was originally created by Veritas and is now owned by the Storage Networking Industry Association.



Additional product highlights

- **Web-based interface**—Intuitive Web interface for a single management point for multiple SAN, NAS, and DAS environments
- **Role-based security**—Variable secure access controls ranging from read-only to administrator
- **File-level details**—Details about file type, duplicate files, file create date, file last modified date and last access date, and free space
- **Database reporting**—Historical or real-time views plus future projections of database storage usage
- **Network Appliance integration**—Native integration providing filer details (quotas, qtrees, snapshots, etc.) as well as performance and health monitoring
- **Open database**—Published database structure for full access and easy custom reporting
- **Storage reporting**—Flexible reporting engine for scoping/filtering reports, changing report time frames, and automating the execution and delivery

Supported operating systems

- IBM® AIX®
- HP-UX
- Sun™ Solaris™
- Red Hat® Linux
- Microsoft Windows®

More information

Visit our Web site

<http://enterprise.symantec.com>

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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.

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