

# Veritas CommandCentral™ Storage by Symantec

Centralized visibility and control across heterogeneous storage environments

Veritas CommandCentral Storage is a comprehensive software solution that seamlessly integrates storage resource management, performance and policy management, storage provisioning, and SAN management 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 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.

## Highlights

- **Storage capacity management**—Reclaim lost or wasted storage and forecast for current and future storage capacity requirements
- **End-to-end visibility**—Dynamically map applications to the resources they consume and implement storage tiers to match data to the appropriate storage devices based on business requirements
- **Centralized health monitoring**—Monitor the necessary elements of the data path, including arrays, switches, HBAs, hosts, and applications, and alert on any availability or performance issues based on predefined policies required for business use
- **Heterogeneous storage provisioning**—Streamline and standardize the provisioning process with a single management tool across heterogeneous storage infrastructure

## Storage capacity management

Visibility of resources in the data center is challenge number one. Before any complete analysis of the storage environment is accomplished, IT professionals must be able to accurately track availability and usage of resources. CommandCentral Storage provides the necessary visibility of current and historical disk usage. This information is not

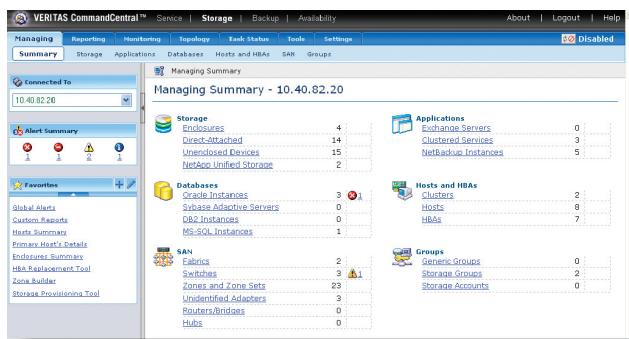


Figure 1. Centralized, Web-based user interface



only critical in determining how much storage is available today, but also provides insight into additional storage requirements. Visibility of metrics such as available resources and storage burn rates, provides accurate forecasts for capacity planning and budgeting, while preventing excess storage purchases that lead to reduction of storage utilization levels.

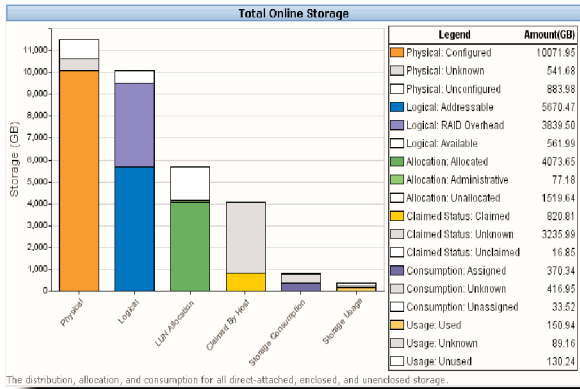


Figure 2. Total online capacity report

**End-to-end visibility**

Understanding the paths from applications to physical storage is critical to ensure that applications receive the appropriate performance and availability levels. CommandCentral Storage presents the necessary view into the data path to provide full comprehension of how applications are spread across the physical disk resources. This enables storage administrators to identify potential bottlenecks or failure points in a data path, regardless of complexity. CommandCentral Storage also provides this mapping from the array to the host, presenting insight into array-level events that may impact applications. This mapping is critical for identification of incorrect storage configurations that result in orphaned storage. Dynamic mapping not only ensures the performance of the data path, but it also provides information for storage reclamation.

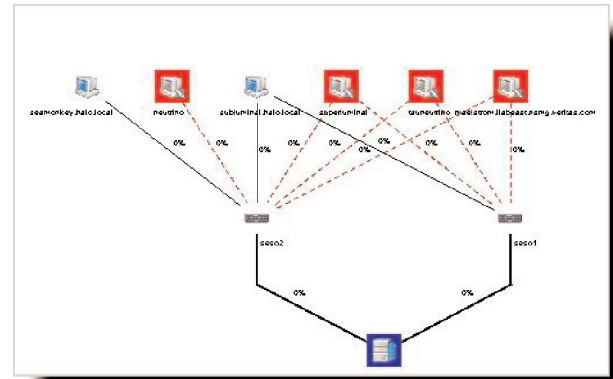


Figure 3. End-to-end visibility from the topology map

**Centralized health monitoring**

The complexity of a storage network may result in undetected problems. CommandCentral Storage monitors all of the necessary elements of the data path, including arrays, switches, HBAs, hosts, applications, and so on. CommandCentral Storage monitors and alerts on performance statistics, availability, environmental, or space conditions. Policy-based alerts automatically notify the correct administrators when any of these variables are outside of the set tolerances.

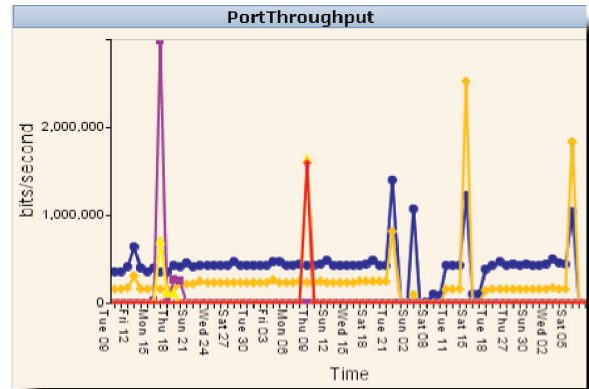


Figure 4. Switch performance statistics



### Heterogeneous storage provisioning

Streamlining the provisioning process reduces the time required for application deployment and change management. Presenting the necessary information required for hardware management in the context of the change process reduces both time and the possibility of errors. CommandCentral Storage provides the data necessary to make optimized management decisions while presenting a common interface for a majority of these management functions. Management becomes a standardized process as opposed to a specialized task. CommandCentral Storage complies with many industry standards and vendor interfaces, protecting investments in hardware and training now and into the future.

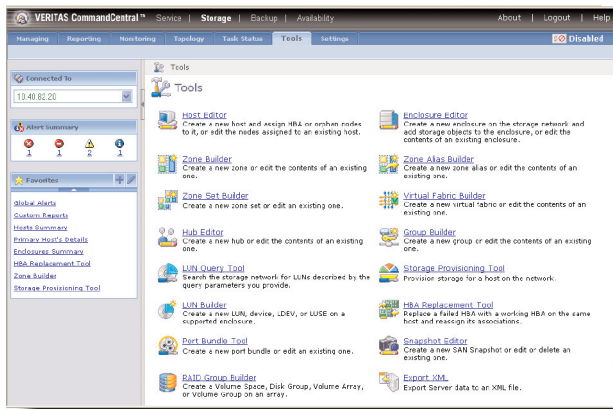
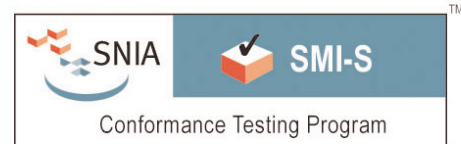


Figure 5. Comprehensive storage management tools

### Industry standard 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®
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### More information

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