

# Veritas CommandCentral™ Family

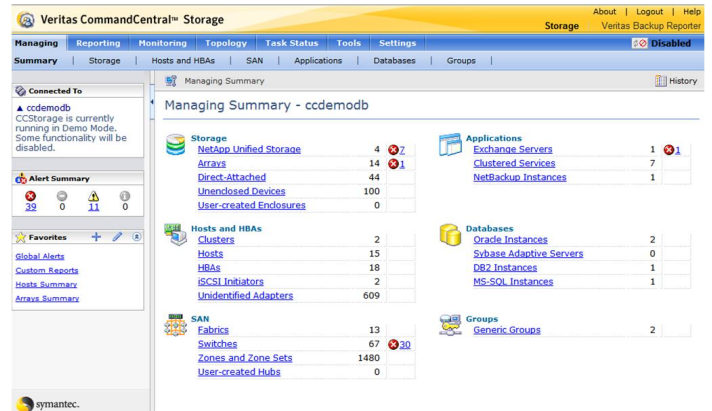
Centralized visibility and control across heterogeneous storage environments

## Overview

Veritas CommandCentral™ Storage is an industry standard-based, comprehensive software solution that seamlessly integrates storage capacity management, storage resource management, performance and policy management, storage change management, and business reporting to ensure that the storage infrastructure is utilized properly and runs efficiently.

Veritas CommandCentral offers customizable policy-based management to automate notification, recovery, and other user-definable actions.

CommandCentral includes a capacity planning solution enabling a global view of storage assets, business insight about inventory and utilization, allowing users to reclaim wasted storage and reduce capital and operational costs. By providing dynamic mapping from the application to the physical spindle, CommandCentral permits IT organizations to optimize resources and operations. Additionally, CommandCentral provides enterprise-wide insight into storage infrastructure changes in the data center and their impact on the business, while enabling continuous health monitoring for optimized performance and data availability. These elements together ensure alignment of IT operations with the objectives of the business.



Centralized, web based user interface

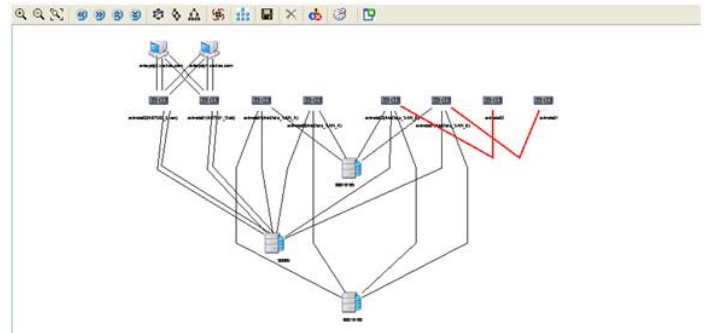
- Achieve end-to-end visibility—Discover and visualize how applications map to the resources they consume across all elements in the data center, including servers, switches, and storage.
- Improve storage utilization—Implement prudent storage capacity management practices by reclaiming lost or wasted storage, forecast for current and future storage capacity requirements, and enable tiered storage to match data to the appropriate storage devices based on business requirements.
- Transform storage operations—Proactively monitor and detect changes across the enterprise and assess the impact on applications and storage infrastructure based on policies set to maintain stable and healthy configurations in the data center.
- Align with the business—Report on global resources

across the enterprise based on customizable business views in one centralized console, implement service levels, and charge back for storage services rendered to the business.

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### Achieve end-to-end visibility

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



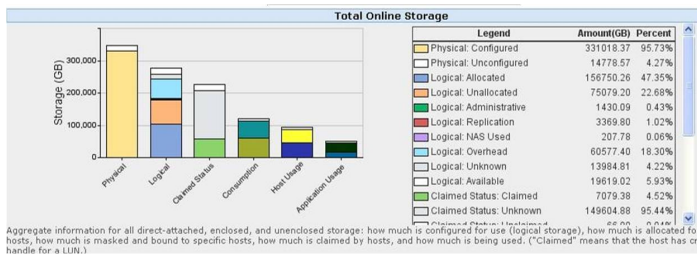
End-to-end visibility from the Topology map

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### Improve storage utilization

Visibility into how resources are being used in the data center is a top priority. Before any analysis of the storage environment can be accomplished, IT professionals must be able to accurately track the availability and usage of resources. CommandCentral provides the necessary visibility into current and historical disk usage to maximize the organization's storage assets. This information is critical not only in determining how much storage is currently available, but also in providing insight into any 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.

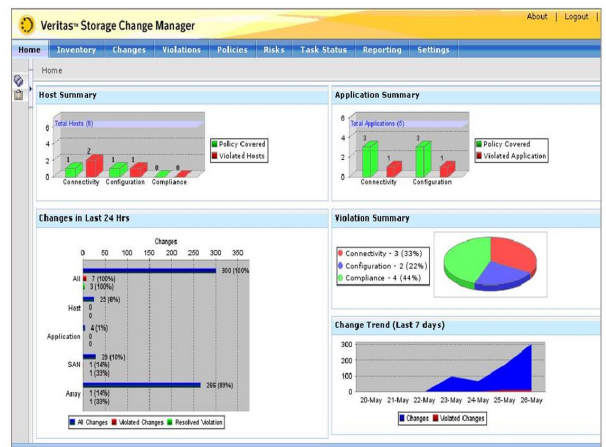
## Data Sheet: Storage Management Veritas CommandCentral™ Family



Total on-line storage capacity report

### Transform storage operations

The complexity of a storage network may result in undetected problems and changes. CommandCentral monitors all of the necessary elements of the data path, including arrays, switches, HBAs, hosts and applications. CommandCentral monitors performance statistics, availability, and environmental or space conditions, and automatically alerts the appropriate administrators when any of these variables are outside of set tolerances. Effective change management maximizes application uptime by tracking configuration drift and changes against standard policies and industry best practices. CommandCentral provides the data necessary to make optimized management decisions. Management becomes a standardized process as opposed to a specialized task. CommandCentral is fully compliant with SMI-S, but it also provides the deep integration (which SMI-S is not intended to do) with third-party storage providers that protect an organization's investment in hardware and training now and into the future.

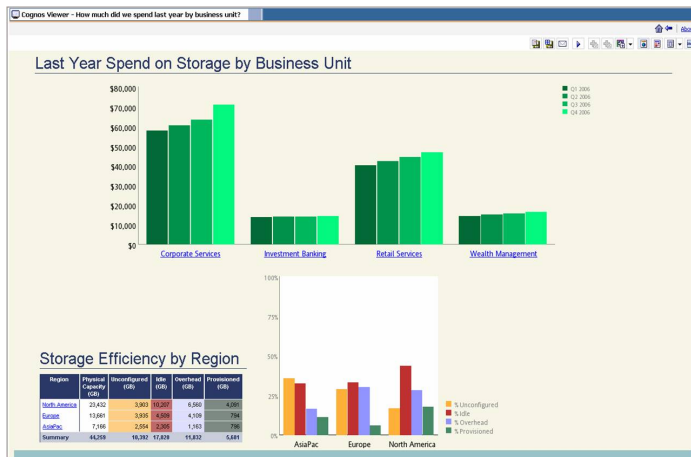


Changes tracked and presented in the dashboard

### Integrate with business processes

CommandCentral aligns storage operations to the business by enabling global, customized enterprise reports of data center resources across multiple geographic locations. CommandCentral provides a clear analysis of consumed and unconsumed storage resources mapped to the business and underlying applications, enabling organizations to implement prudent capacity planning practices. Additionally, CommandCentral enables service-level reporting and chargeback for storage services delivered to the organization. CommandCentral helps organizations push accountability for storage consumption to business owners by decomposing tiered storage cost per business unit.

## Data Sheet: Storage Management Veritas CommandCentral™ Family



Customizable business groupings

### Industry standards support

CommandCentral supports many industry standards, including support for SNMP and certification for the CIM/SMI-S 1.1 storage management standard that was originally created by Veritas and is now owned by the Storage Networking Industry Association.

### Additional Product Highlights

- Agent-less mode – Offered as an agent-less solution for quick time to value, easy deployment, configuration and maintenance
- Virtualization – Supports a full range of virtualization technologies including VMware, IBM SAN Volume Controller and HDS Universal Storage Platform
- Web-based interface—Offers an intuitive Web interface for a single management point for multiple SAN, NAS, and DAS environments
- Centralized storage management—Integrates storage

resource management, performance and policy management, as well as SAN management

- Scalability—Scales to the largest data center environments and supports thousands of servers and multiple petabytes of storage capacity from one management server
- Role-based security—Incorporates variable secure access controls ranging from read-only to administrator
- File-level details—Provides details about file type, duplicate files, file create date, file last modified date and last access date, and free space
- Database reporting—Provides historical or real-time views plus future projections of database storage usage
- NetApp integration—Native integration provides NAS storage information (quotas, qtrees, snapshots, etc.), performance and health monitoring, and file-level analysis
- iSCSI support—Reports on iSCSI initiator's associated host, driver information, WWN, and firmware version
- Open database—Has a published database structure for full access and easy custom reporting

### Supported Operating Systems

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

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