

Storage Manager 6.1

Monitor the Growth and Cost of Primary Data Storage

Key Benefits

- ▶ **Simple to use**—monitor and manage storage resources from single browser interface
- ▶ **Improves data availability**—invoke processes to identify trouble spots and initiate corrective actions
- ▶ **Increases IT staff productivity**—automated and centralized management; at-a-glance reporting
- ▶ **Track storage costs**—monitor storage consumption and cost by project, owner and application
- ▶ **Forecast growth trends**—project data growth trends to better budget for storage purchases
- ▶ **Identify stale data and prohibited files**—identify volumes containing data which is ideal for archive or deletion

Easily add capabilities for protection, archive, replication and snapshot recovery, all managed from the same Unified Console.

The Business Problem

According to leading industry analysts, storage purchases consume 40% of IT's annual budget. With the price of disk storage declining every year, IT is tempted to "throw" more hardware at the rising tide of data. So, why does adding more primary storage never seem to reduce the cost of managing storage? Without a clear understanding of what storage resources are being used by each individual, department or application, IT cannot optimize storage management and usage, reduce excess storage purchasing, and deliver improved business performance.

The CommVault® Solution

Storage Manager software discovers, tracks, analyzes, trends, and reports on primary storage usage. Supporting today's enterprise, Storage Manager software provides insight into Windows, NetWare, Linux and UNIX file systems, as well as NAS Filers and applications such as Microsoft Exchange, SharePoint, SQL Server and Oracle. Storage Manager software enables IT to implement consistent usage policies across platforms, applications, geographies, and departments. The software's threshold monitoring alerts IT to abuses; whether it's excessive usage or restricted file types. The Storage Manager software's analytical reports help IT reclaim wasted storage, manage capacity and raise storage utilization to reduce storage spending.

Reduce Storage Management Costs

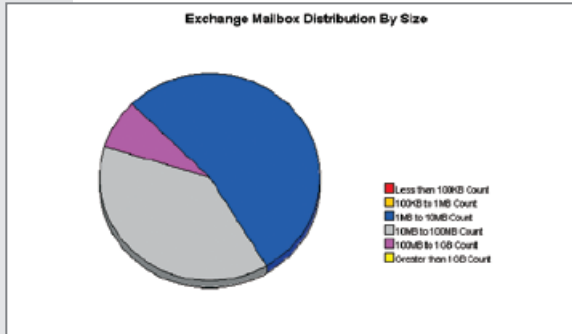
Storage Manager offers operating system and application based intelligence that lets IT tune storage resources for optimum efficiency. Built in predictive reports provide the foundation for IT to effectively plan their storage allocation and confidently migrate inactive data sets to cheaper storage. In addition, IT can postpone purchasing until storage capacity is actually needed, instead of the usual guesswork estimations that result in overspending.

Storage Manager offers a logical costing model that frees IT from the tedious, manual allocation and charging methods. It matches the cost of primary to storage consumers in a simple, straightforward report. Even if chargeback is not an IT process, costing is an important budgeting tool and a vital component in the total cost of ownership and return on investment

Comprehensive Reporting

Storage Manager has preconfigured reports for almost every facet of the storage environment: domains, volumes, file types, file attributes, users, owners, and applications. Storage Manager offers two levels of data gathering; one is a light collection process, the other offers in-depth data collection. With this data, IT can trade off server resources to reduce costs and make operations more efficient.

Proactively manage the growth of Exchange mailbox by monitoring message size



“Advisories” Highlight Problems and Suggest Corrective Actions

Storage Manager offers additional insight into the storage and application performance status. Advisories allow IT to actively tune application storage resources to minimize storage related downtime and maximize application responsiveness and utilization. Storage Manager Advisories not only highlight potential problems, but also suggest best practices and corrective actions so that problems can be avoided in the future.

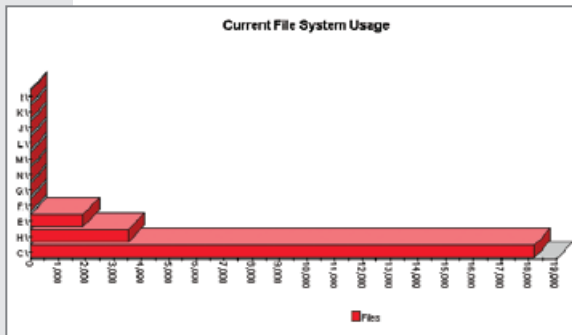
Unlocking ROI through Resource Management

The core of the CommVault® product suite is the Common Technology Engine (CTE) architecture which provides common services for each of the data management applications in the suite. It is through the CTE architecture that CommVault software is able to offer unparalleled insight into your production storage and secondary managed data copies.

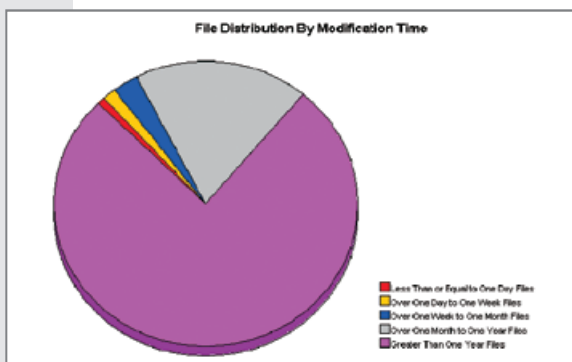
The CommVault approach to Resource Management presents you with a full 360 degree view of all data management across your enterprise—including storage, archive, backup, recovery, migration, snapshot and replication activities.

This knowledge can be used to optimize operations, proactively increase system uptime, establish and meet service levels and compliance standards, and improve resource utilization while reducing management costs.

Prevent “out of disk space” errors by tracking file system usage



Reclaim storage space by easily identifying stale files



Key Features and Benefits

Features	Benefits
Discover storage capacity and needs	Utilize comprehensive view into storage environment for better decision-making.
Light data collection	Reduce CPU and server I/O load for storage elements by avoiding detailed statistics gathering
Application-integrated view of storage capacity	Understand how storage consumption is mapped to application architecture, like database tables, message stores or NAS shares.
Threshold based alerting	Manage data capacity through policies to reduce manual intervention.
Logical billable entities	Create and manage primary storage costing based on business units (instead of physical resources).
Logical to physical resource mapping	Presents all logical storage entities associated with disk volumes and vice versa.
Forecast storage needs	Eliminates excessive purchases and assists in annual budget forecasting.
Customized storage cost categories	Ensures tiered storage architecture and network storage architectures can be accurately costed back to the proper place.
Thresholds and restricted file types	Makes sure that storage best practices are enforced.
Browser based user interface	Provides anytime, anywhere administrative capabilities.
Operational process monitoring	Improves productivity and data access. View primary storage resources via multiple views.

Additional Solutions to Use with CommVault® Storage Manager

CommVault offers a *Singular* suite of data management software built on the same software platform so that all capabilities work together. This makes it easy to add capabilities when and how you need them. To add on to CommVault Storage Manager software, consider:

► CommVault Galaxy Backup and Recovery

- Identify file systems with many recently modified files, which should be protected frequently with Galaxy Backup
- Analyze file system usage patterns and assess the impact of compression, encryption, etc., on available capacity
- Obtain the progress and status of Oracle RMAN backup jobs that are currently running or completed
- Identify SQL databases that should be backed up based on activity

► Data Migrator

- Identify the least recently used files which are candidates for data migration with QiNetix DataMigrator
- Identify excessively large mailboxes/ public folders and develop policies for migration with QiNetix DataMigrator for Exchange

► CommNet Service Manager

- Analyze primary and secondary storage consumption from an enterprise wide perspective.
- Generate an enterprise wide analysis of cost by department, application or resource.

System Requirements

Monitored Applications	Microsoft Exchange Server, Microsoft SQL Server, SharePoint Portal Server, Oracle
Monitored Platforms	AIX, HP-UX, Solaris, Microsoft Windows, Red Hat and SuSE Linux and Novell NetWare

Note: System Requirements are subject to change. For up-to-date System Requirements, please refer to product documentation on the CommVault website at <http://www.commvault.com>

Find out how you can take the *Singular* approach to data management, and transform managed data into business value. Contact CommVault at a location near you.

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