

EMC-CaminoSoft Data Management and File Archiving Solution



The Big Picture

- Manages server files in an automated, intelligent manner based on administrator-defined policies, reducing management overhead, manual intervention, and costly mistakes
- Enables backup solutions to focus on active production files while protecting the reference information for the files that have been migrated to an EMC Centera system
- Dramatically reduces the time required to perform server (disaster) recovery by restoring relevant production files and only the reference information for the seldom-accessed files residing on Centera
- Provides users with immediate, transparent access to all their files, which they view in the context of their original directory structures—all without administrator intervention
- Minimizes SAN storage growth by continually differentiating seldom-accessed files from production files and migrating such reference files across multiple tiers in the storage hierarchy
- Maintains policies for all managed servers from a single Windows workstation graphical interface
- Leverages Centera's compliance features to provide full information lifecycle management
- Requires minimal IT intervention allowing for easy installation, implementation, and setup
- Enables businesses to readily accommodate new sites, sudden spikes in volume, and long-term growth, easily and cost effectively through total scalability
- Allows content to be kept for a definable period of time, ensuring its permanent removal and expunging to comply with corporate records management file plans
- Reduces total cost of ownership (TCO) through Centera's self-management, self configuration, and self-healing capabilities



Successfully handle the complexities of data storage management and file archiving

Applications such as CAD, multimedia, computer graphics, document images, e-mail, and user-controlled directories are generating new data at an exceptional rate. So it is no surprise that businesses are continually running out of storage space; running out of time to perform full backup of SAN resources each night; and running out of patience with the slow file access and complicated operation of tape libraries.

Virtually all organizations are experiencing an increased demand for more primary storage resources. However, meeting the demand for increased storage is only one aspect of the problem. How can you manage data intelligently, grow your storage infrastructure cost-effectively, and comply with internal and industry data retention regulations, while providing users with immediate access to their files?

You can do it all with the joint data management and file-archiving solution from CaminoSoft and EMC. CaminoSoft's Managed Server HSM™—Centera™ Proven™ Edition provides a straightforward, cost-effective solution for handling the complexities of data storage management and file archiving. By applying a consistent set of policies, administrators can control the migration, location, and retention of files throughout their lifecycles across all storage tiers, including high-performance SAN and NAS subsystems, general-purpose disk arrays, and EMC® Centera archives. And Centera's combined features of fixed-content optimization, high availability, scalability, and cost-effectiveness make it the ideal archiving solution for controlling the explosive growth of your organization's primary storage infrastructure.

EMC Centera—the world's first content-addressed storage solution

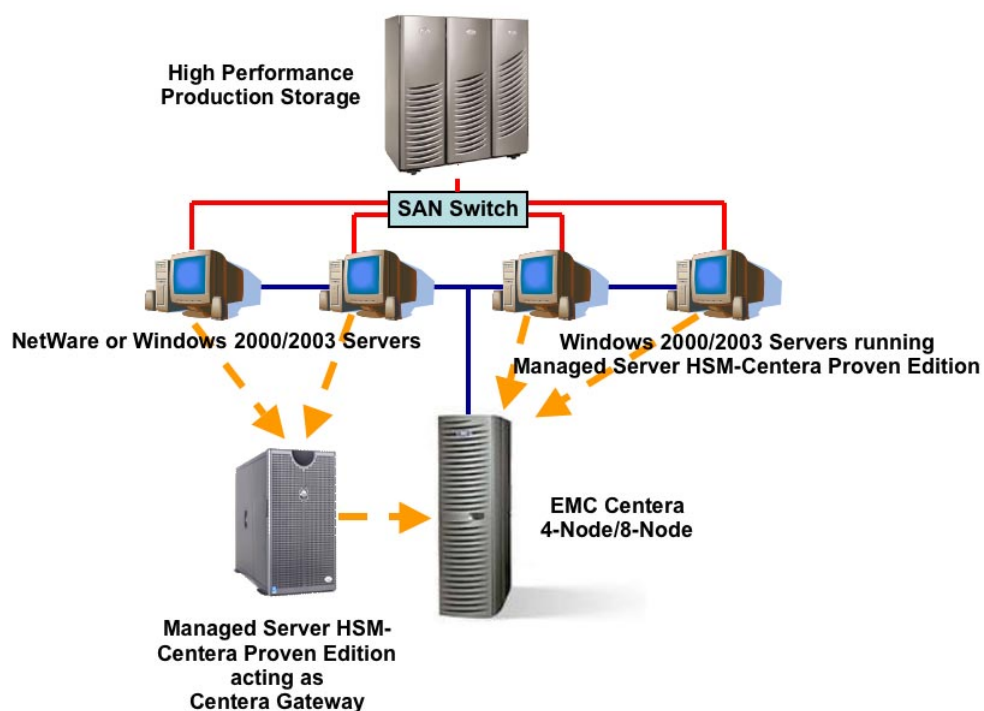
EMC Centera is specifically designed to store and provide fast easy access to fixed content—unchanging digital assets retained for active reference and long-term value. With Centera, an object is stored only once, ensuring its authenticity and reducing the consumption of valuable disk space. All information objects are mirrored within a Centera cluster to support automatic recovery for business continuance. Centera also constantly self-monitors to detect and repair faults and automatically reconfigures itself and replicates objects as necessary.

Architected around the most stringent storage media standards that exist in the world today, Centera content addressing ensures that each record cannot be overwritten, while retention protection ensures that a record cannot be prematurely erased before the expiration of its retention period. Unlike any other media, Centera ensures the integrity of records throughout their lifecycles through an automated system of continuous data-integrity checking, as well as onsite and offsite protection mechanisms.

Two versions of Centera are available to meet your business needs. The Centera Governance Edition is for a business concerned about the responsible management of its organization, including its electronic records. Guidelines are self-imposed and not limited to external regulatory drivers. If a business must comply with SEC Rule 17a-4, 21CFR Part 11, HIPAA, Sarbanes-Oxley, GoBs, DoD 5015.2, or any of the hundreds of other regulations and standards, Centera Compliance Edition Plus provides the advanced retention and disposition functionality that compliance applications demand.

CaminoSoft Managed Server HSM–Centera Proven Edition

CaminoSoft Managed Server HSM software allows you to better manage the utilization of storage resources throughout your enterprise. It enables administrators to configure policies and usage of the virtual Central Storage Pool and migrate files that are infrequently accessed to the pool. Using additional policies, Managed Server HSM–Centera Proven Edition extends this functionality by providing the ability to migrate files further along the storage hierarchy to an EMC Centera. The policy-driven engine provides for lights-out operation, reduces the time and space to make backups of the files that are actually changing day-to-day, while providing complete, transparent access by end users to all their data.



Real-time data management strategies

The merging of rule-based policies into actionable, real-time data management strategies is the key organizational benefit derived from Managed Server HSM–Centera Proven Edition. These strategies include:

- **Differentiating reference data from production data.** Production files are actively utilized in day-to-day operations within the organization. Reference files, on the other hand, are seldom accessed but still need to be maintained and readily available, whether in support of internal organizational requirements or due to external legal obligations. In general, user access activity declines sharply over the first days and weeks following creation of a file, a key determinant in establishing data migration policies and optimal storage resource placement.
 - **Providing structured control over file retention and deletion decisions.** In banking and financial services applications, transactional files may be kept on SAN primary storage only during their highly active periods, for example, the first seven days, making them accessible in milliseconds. Between seven days and two months, the files may be
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moved to secondary storage, e.g., lower-cost S/ATA disk arrays, retaining the benefits of transactional speed and high throughput. After two months, the files may be archived to Centera and retained or deleted as mandated under banking policies and industry regulations.

- **Facilitating compliance with mandated government regulations.** In the healthcare field, for example, organizations cannot just automatically migrate files or delete them based on a time-stamp. Current legislation calls for information to be retained and available for the duration of a patient's life and for several years afterwards. Merely pushing all data to a generic offsite archive is insufficient. This calls for a flexible system that encompasses proven WORM storage technologies and supports broad data migration policy criteria other than just "creation date," such as "file type," "includes/excludes," "last access date," and "modified date."
- **Ensuring application and file transparency for users.** Organization users cannot be concerned with the logical or physical whereabouts of their data. They assume that their files exist and expect a quick response. Therefore, it is mandatory to provide a logical view of data that allows users to "see" files as they were when created and modified and in the same directories where they originally resided, regardless of their current locations across the storage hierarchy.
- **Reclaiming space on costly production storage resources.** It is not uncommon for a business to spend well in excess of a half-million dollars on a SAN solution, so applications that minimize the initial expenditure as well as rate of expansion are well worth considering. The objective is to maximize return on investment, which is accomplished by continuously monitoring and controlling information movement so that expensive SAN resources are occupied only by files that represent the highest possible value to the organization.

About CaminoSoft Corporation

CaminoSoft Corporation is a developer and manufacturer of software solutions that store, manage, and safeguard vast quantities of data created in a wide range of business and application settings. CaminoSoft's information lifecycle management solutions for Novell NetWare and GroupWise and Microsoft Windows 2000/2003 include comprehensive administrative policies that allow organizations to reclaim storage resources, dramatically reduce backup and recovery time, control file retention, and achieve regulatory compliance. The company's storage management and high-availability solutions are available worldwide through commercial distributors, value-added resellers, and systems integrators. For further information, visit www.caminosoft.com.

About EMC Corporation

EMC Corporation is the world leader in information storage systems, software, networks, and services, and the provider of the most robust, secure, and trusted information infrastructures in the world. Major customers include the world's largest banks and financial services firms, manufacturers, telecommunications providers, airlines, transportation companies, Internet providers, retailers, educational institutes, and regional and national government agencies. Working with leading application providers like CaminoSoft, EMC helps unlock the value of fixed content with Centera. More information about Centera can be found at www.EMC.com/products/systems/centera.jsp.

Take the next step

Working together, EMC and CaminoSoft offer you a powerful joint solution that supports Centera Governance and Compliance modes, as well as SANs, off-the-shelf S/ATA RAID storage arrays, NAS targets, and general-purpose servers. To learn more, call your EMC or CaminoSoft sales representative, or visit our websites at www.caminosoft.com or www.EMC.com.



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