EMC² PROVEN CENTERA

CaminoSoft

Managed Server HSM™ Centera Proven™ Edition

Infinite Storage for Enterprise Data

Nearly all companies are experiencing an explosion in the demand for storage, driven particularly by space hungry applications like CAD, multimedia, computer graphics, document imaging, email and user-controlled directories. Meeting the demand for increased storage is only one aspect of this problem. Managing the data intelligently, growing the storage infrastructure cost-effectively, and conforming to regulatory mandates for data retention while providing users with immediate access to all of their files are the real challenges.

Centera Proven Edition Offers a Cost-Effective Solution

CaminoSoft's Managed Server HSM™ – Centera Proven Edition provides a straightforward, cost-effective solution for handling the complexities of data storage management. Centera Proven Edition offers all of the features of CaminoSoft's standard Managed Server HSM, including support for multiple, off-the-shelf storage devices, NAS appliances, general purpose servers, etc. In addition, the Centera Proven Edition provides support for EMC's Centera. The combined storage options made available by the Centera Proven Edition provide a storage hierarchy capable of virtually infinite storage growth with increased data availability – while satisfying regulatory requirements for data retention.

Centera Proven Edition - How it Works

Like our standard Managed Server HSM solution, Centera Proven Edition enables the administrator to configure policies and usage of the "virtual" Central Storage Pool and archive files that
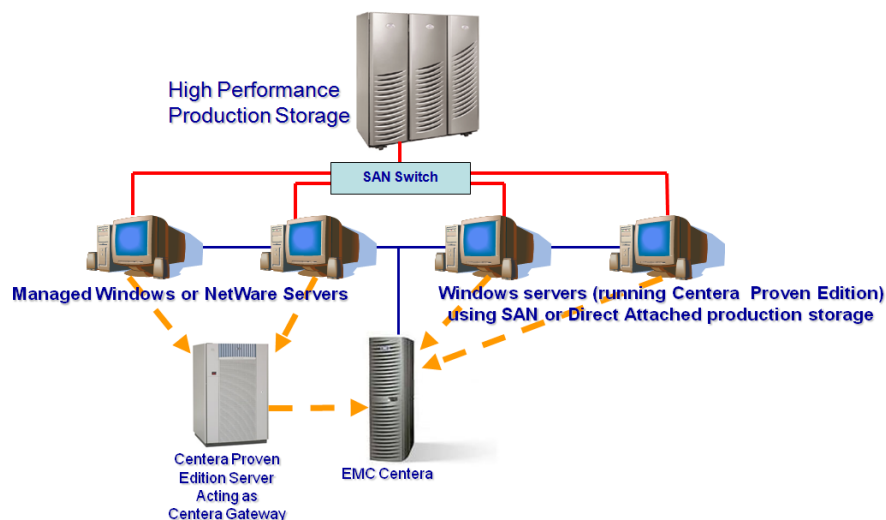
are infrequently accessed to the pool. Using additional policies, Centera Proven Edition extends this functionality by providing the ability to archive files further along a storage hierarchy to an EMC Centera. The policy-driven engine provides for "lights-out" operation, reduces the time and space to make backups of the files that are actually changing day-to-day, while providing transparent access by users to all of their data.

Centera Proven Edition Benefits

Centera Proven Edition provides a cost-effective solution for managing storage growth. The policy-driven engine reduces manual management overhead and provides lower TCO by relocating seldom accessed and specially identified files from higher-cost, production storage to an EMC Centera – enabling access to Centera's unique combination of "data retention" and "single instancing" features from virtually any set of files.

Managed Server HSM Centera Proven Edition Key Features

- Provides all the features of Managed Server HSM for Windows Server

- Adds support for EMC Centera

- Provides seamless access to archived files

- Requires minimal IT intervention allowing for easy implementation

- Enables full administrative control over archive activity via comprehensive policy maintenance

- Maintains policies for all Managed Servers from a single, Windows workstation graphical interface

High Performance Production Storage

SAN Switch

Managed Windows or NetWare Servers

Windows servers (running Centera Proven Edition) using SAN or Direct Attached production storage

Centera Proven Edition Server Acting as Centera Gateway

EMC Centera

Managed Server HSM – Centera Proven Edition, running on a Windows server, can manage files directly from its own resources to the Centera. Or, optionally, it can act as a gateway to Centera providing access from multiple NetWare, NetApp and Windows "managed" servers.

Today's IT Reality and Challenges	Centera Proven Edition Solves Business Problems
• Simply adding new storage (disks, servers, NAS devices, volumes, etc.) creates more "islands" of distributed data storage	• Consolidates available storage across multiple network servers into a "virtual" Central Storage Pool to provide a host for infrequently accessed files; leaving space available for the applications and users who need it most
• Storage "islands" create a fragmented view (more mapped drives) of storage making it more difficult and time-consuming for users to store and find their files	• Provides a consistent, single view of storage to applications and users, regardless of their files' physical locations
• Newly deployed storage cannot be dynamically utilized by users and applications. Files must be manually transferred to newly deployed storage, creating new network shares/volumes requiring further administrative time to employ security	• Makes any storage capacity added to the Central Storage Pool automatically available to all production servers running Managed Server HSM. Users/applications store and retrieve their files from the same network shares/volumes as they always have
• Additional storage is difficult and expensive to manage. According to recent industry estimates, management of storage costs 8 times the hardware cost	• Manages data storage in an automated, intelligent manner based on administrator-defined policies – reducing manual management overhead and providing lower total cost of ownership
• Increased time and space necessary to make routine backups increases the likelihood of backup failure (it is estimated that 40% of all backups are aborted), potentially leaving critical production files unprotected	• Enables backup solutions to focus on active, production files by protecting only the reference information for the files that were archived to the Central Storage Pool (as much as 80% or more of the total volume of data)
• Full server (disaster) recovery takes longer by restoring all files regardless of their current relevance, creating unnecessary, extended periods of downtime	• Shortens time required to perform full server (disaster) recovery - minimizing downtime - by restoring only relevant, production files in full while restoring just the reference information for the infrequently accessed files
• Lack of a persistent storage "watchdog" exposes organizations to unnecessary and costly downtime when servers run out of storage space. Manual monitoring of space availability by administrators requires valuable time better spent on productive tasks	• Automatically monitors storage status and archives files to Central Storage Pool devices – both routinely and on an emergency basis – freeing up space on overloaded servers before critical levels are reached, reducing management costs, downtime and other associated costs; with no administrator intervention
• Companies are generating more and more data, with no end to growth in sight. It is estimated that the average annual storage growth rate now exceeds 75%. Reacting to this growth by simply adding/upgrading storage resources creates more downtime and the costly administrative overhead to install, configure and manage the additional storage	• Provides scalability by allowing administrators to simply add servers/devices to the Central Storage Pool as storage requirements increase. Servers running Managed Server HSM gain access to the additional storage without the need for costly downtime
• There is no mechanism in place to avoid "reactive" early retirement of server/storage assets simply because of the lack of available space	• Enables policies to be adjusted to further extend the life of existing storage resources by archiving additional files to the Central Storage Pool when true production file usage approaches current capacity
• End users demand timely access to stored data without having to search or burden IT resources to find their files	• Provides end users immediate and transparent access to all their stored files in their existing directory structures; without administrator intervention
• Files are replicated throughout an organization by its user community often resulting in tens to hundreds of copies of the same files occupying expensive, high performance disk-storage resources	• Utilizing Centera's single instancing capabilities, Centera Proven Edition stores only a single copy of its multiple source files on the Centera - if those files contain exactly the same data
• Identified files can be subject to data retention requirements (Sarbanes-Oxley, HIPAA, SEC, etc.) often requiring sophisticated, specialized applications for compliance	• Centera Proven Edition leverages Centera's data retention capabilities by allowing policy settings to dictate how long a file is retained within the Centera. Additional policies can be optionally coordinated to automatically delete file content when a file's useful life has expired.

Benefits With CaminoSoft Managed Server HSM – Centera Proven Edition

- Extends the life of existing IT storage investment by postponing the necessity for expensive server/storage upgrade decisions
- Prevents costly downtime related to "out of disk space" conditions
- Increases data availability by archiving infrequently accessed files where they remain available; instead of users or administrators deleting or saving them offline
- Reduces the time to backup production files and, more importantly, reduces the time needed to recover a failed server; once again preventing costly downtime
- Provides access to an EMC Centera for single-instance and regulatory compliant storage from virtually any set of file-system based files

System Requirements

- Server running Windows 2000/2003/2003 R2/2008/2008 R2 /2012/2012R2 Server
- Pentium Processor or higher
- 4GB RAM or greater
- NTFS volume(s)
- CaminoSoft Managed Server HSM – Centera Proven Edition software

- Central Storage Pool comprised of one or more off-the-shelf hardware configurations of NetApp shares, general purpose file servers, JBOD, tape library, EMC Centera, IBM TSM/DR550, Archivas Cluster, Hitachi HCAP, and cloud storage gateway.

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