



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, while providing users with immediate access to all of their files are the real challenges.

OES Edition Offers a Cost-Effective Solution

CaminoSoft's Managed Server HSM™ – OES Edition provides a straightforward, cost-effective solution for handling the complexities of Novell's Open Enterprise Server SUSE Linux data storage management. OES Edition offers all of the features of CaminoSoft's standard Managed Server HSM, including support for multiple, off-the-shelf storage target devices. Whether used in a SAN or NAS environment, the combined storage options made available by the OES Edition provide a storage hierarchy capable of virtually infinite storage growth with increased data availability and data retention – while leveraging your existing storage investment.

OES Edition – How it Works

Like our standard Managed Server HSM solution, OES Edition enables the administrator to configure policies and usage of the “virtual” Central Storage Pool and archive files residing in the OES environment that are infrequently accessed to the

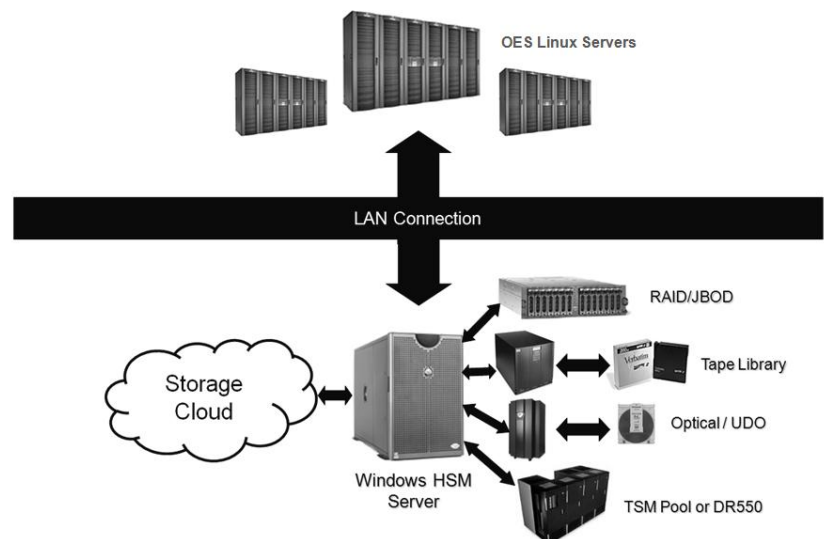
central pool. OES Edition allows archiving of inactive files to a variety of target environments including JBOD, tape library, EMC Centera, IBM Tivoli, Archivas, Hitachi HCAP and gateway-enabled cloud storage. The policy-driven engine provides for “lights-out” operation while providing complete, transparent access by users to all of their data.

OES Edition Benefits

OES Edition provides a cost-effective solution for managing growing storage requirements and satisfying regulatory mandates for data retention. The policy-driven engine provides lower total cost of ownership by relocating seldom accessed files from OES storage systems to less expensive and/or special-purpose (WORM) devices. By reducing primary storage consumption, backup and server recovery processes shrink to a fraction of the time previously required.

Managed Server HSM OES Edition Key Features

- Provides all the features of Managed Server HSM for our other platforms (Windows, NetWare, NetApp)
- Automates file archiving and retrieval
- Provides seamless access to archived files
- Installs easily and quickly with no required server downtime
- Requires minimal IT intervention allowing for easy implementation
- Enables full administrative control over archiving activity via comprehensive policy maintenance
- Maintains policies for all Managed Servers from a single, Windows workstation graphical interface



Managed Server HSM – OES Edition, running on a Windows 2000/2003/2008 server, manages files on native SUSE Linux. Inactive files can be archived to various target environments, including SAN or direct-attached disk, tape and optical libraries, EMC Centera, Tivoli TSM/DR550, Archivas Cluster, Hitachi HCAP and cloud storage.

Data Sheet: Managed Server HSM™ OES Edition

Today's IT Reality and Challenges	OES Edition Solves Business Problems
<ul style="list-style-type: none"> Simply adding new storage (disks, servers, NAS devices, volumes, etc.) creates more "islands" of distributed data storage 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 	<ul style="list-style-type: none"> 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 Provides a consistent, single view of storage to applications and users, regardless of their files' physical locations
<ul style="list-style-type: none"> 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 Additional storage is difficult and expensive to manage. According to recent industry estimates, management of storage costs 8 times the hardware cost 	<ul style="list-style-type: none"> Makes any storage capacity allocated to central storage pools automatically available to all OES storage systems (SAN and NAS) utilizing Managed Server HSM. Users/applications store and retrieve their files from the same network shares/volumes as they always have Manages data storage in an automated, intelligent manner based on administrator-defined policies – reducing manual management overhead and providing lower total cost of ownership
<ul style="list-style-type: none"> Full server (disaster) recovery takes longer by restoring all files regardless of their current relevance, creating unnecessary, extended periods of downtime 	<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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 There is no mechanism in place to avoid "reactive" early retirement of server/storage assets simply because of the lack of available space 	<ul style="list-style-type: none"> Provides scalability by allowing administrators to simply add storage to the central storage pools as storage requirements increase. OES primary storage environments monitored by Managed Server HSM gain access to the additional storage without the need for costly downtime Enables policies to be adjusted to further extend the life of existing storage resources by archiving additional files to the storage pools when true production file usage approaches current capacity
<ul style="list-style-type: none"> End users demand timely access to stored data without having to search or burden IT resources to find their files 	<ul style="list-style-type: none"> Provides end users immediate and transparent access to all their stored files in their existing directory structures; without administrator intervention

Benefits With CaminoSoft Managed Server HSM – OES 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 needed to recover a failed server by only restoring full file content for active, production files – preventing costly downtime
- Installs and configures quickly and easily without overloading IT resources

System Requirements

- Server running Windows 2000/2003/2003 R2/2008/2008 R2 /2012/2012 R2 Server
- Pentium Processor or higher
- 4GB RAM or greater
- OES 2 server(s) running SUSE Linux 10.5 or higher
- CaminoSoft Managed Server HSM – OES 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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