



CaminoSoft

Managed Server HSM™ NetApp 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, while providing users with immediate access to all of their files are the real challenges.

NetApp Edition Offers a Cost-Effective Solution

CaminoSoft's Managed Server HSM™ – NetApp Edition provides a straightforward, cost-effective solution for handling the complexities of NetApp data storage management. NetApp Edition offers all of the features of CaminoSoft's standard Managed Server HSM, helping to optimize the available tiers of NetApp Storage. The combined storage options made available by the NetApp Edition provide a storage hierarchy capable of virtually infinite storage growth with increased data availability and data retention.

NetApp Edition – How it Works

Like our standard Managed Server HSM solution, NetApp Edition enables the administrator to configure policies to archive inactive files from primary storage to more optimal tiers of storage. By leveraging NetApp's FPolicy APIs, NetApp Edition allows the transparent recall of archived files from any supported archive platform. The policy-

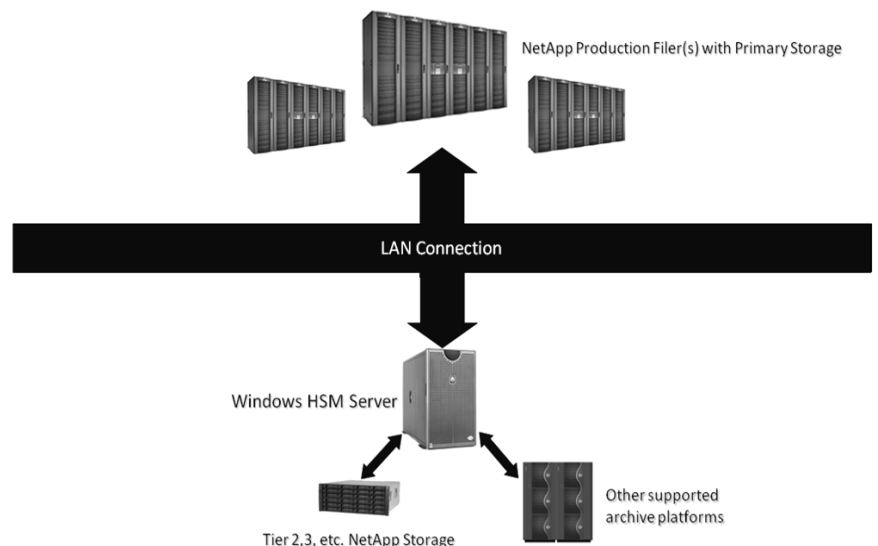
driven engine provides for "lights-out" operation while providing complete, transparent access by users to all of their data.

NetApp Edition Benefits

NetApp 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 archiving seldom accessed files from NetApp storage systems to more optimal tiers of storage and supported archive platforms. By reducing primary storage consumption, backup and server recovery processes shrink to a fraction of the time previously required.

Managed Server HSM NetApp Edition Key Features

- Provides all the features of Managed Server HSM for Windows Server
- Adds support for all flavors of NetApp primary storage - connected via Fibre Channel, iSCSI or NAS (filer)
- Provides seamless access to archived files
- 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
- Supports CIFS and NFS user access



Managed Server HSM – NetApp Edition, running on a Windows server, manages files on native NetApp filers via FPolicy APIs. Inactive files can be archived to various tiers of NetApp storage and supported archive platforms.

Data Sheet: Managed Server HSM™ NetApp Edition

Today's IT Reality and Challenges	NetApp Edition Solves Business Problems
<ul style="list-style-type: none"> Running out of storage space usually means buying more expensive primary disk storage. In addition to the high cost of purchasing primary storage, engaging in this practice can push the limits of expansion. When those limits are eventually reached, it can - and usually does - lead to a wholesale rip-and-replace of the entire storage infrastructure. 	<ul style="list-style-type: none"> Allows customers the option to archive inactive files to other, more economical tiers of storage while still providing users transparent access to their files. By freeing primary storage of these inactive, unstructured files (often more than 50% of total storage), decisions to expand primary storage can be postponed or eliminated
<ul style="list-style-type: none"> Low cost storage can be added, but decisions must be made about how to best allocate the new storage across various servers, partitions and volumes. Mistakes in these decisions can lead to under-utilized resources 	<ul style="list-style-type: none"> Makes added storage capacity (to a Central Storage Pool) available to all NetApp storage systems 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. NetApp 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 – NetApp Edition

- Extends the life of existing IT storage investment by postponing or eliminating 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
- Leverages the NetApp FPolicy APIs to recall seldom accessed files from more optimal tiers of storage

System Requirements

- Server running Windows 2000/2003/2003 R2/2008/2008 R2 /2012/2012 R2 Server
- Pentium Processor or higher
- 4GB RAM or greater
- NetApp Filer(s) running Data ONTAP versions 7.0 or higher
- CaminoSoft Managed Server HSM – NetApp Edition software
- Central Storage Pool comprised of one or more NetApp tiered storage devices or supported archive platforms.

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