

## 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, 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 NetApp Edition provide a storage hierarchy capable of virtually infinite storage growth with increased data availability and data retention – while leveraging your existing storage investment.

### NetApp Edition – How it Works

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

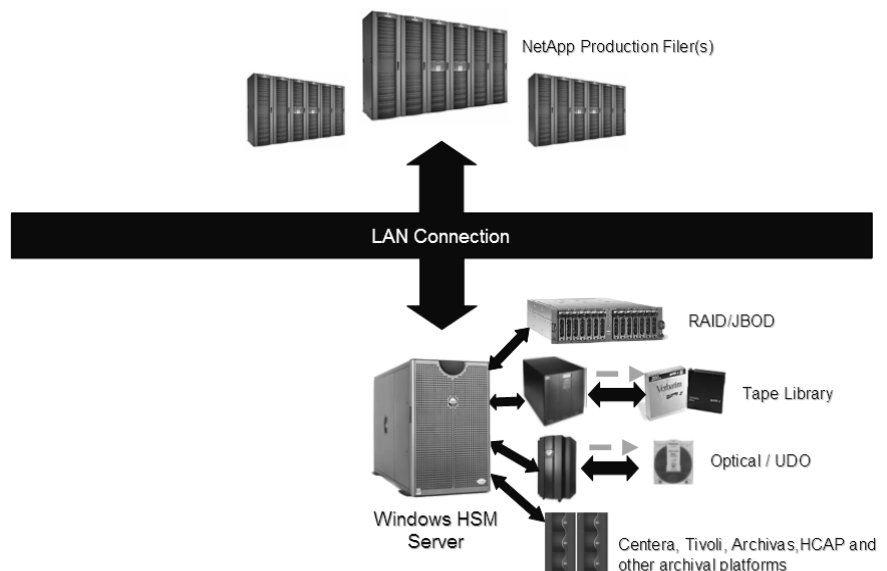
central pool. By leveraging NetApp's FPolicy APIs, NetApp Edition allows migration of inactive files to a variety of target environments including NetApp Fibre and IP SAN, NAS as well as third party vendor environments including JBOD, tape library, EMC Centera, IBM Tivoli, Archivas, Hitachi HCAP and more. 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 relocating seldom accessed files from NetApp 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 NetApp Edition Key Features

- Provides all the features of Managed Server HSM for Windows 2000/2003
- Adds support for all flavors of NetApp primary storage - connected via Fibre Channel, iSCSI or NAS (filer)
- Provides seamless access to migrated files
- Requires minimal IT intervention allowing for easy implementation
- Enables full administrative control over migration activity via comprehensive policy maintenance
- Maintains policies for all Managed Servers from a single, Windows workstation graphical interface



Managed Server HSM – NetApp Edition, running on a Windows 2000/2003 server, manages files on native NetApp filers via FPolicy APIs. Inactive files can be migrated to various target environments, including SAN or direct-attached disk, tape and optical libraries, EMC Centera, Tivoli TSM/DR550, Archivas Cluster, and Hitachi HCAP.

# Data Sheet: Managed Server HSM™ NetApp Edition

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

## Benefits With CaminoSoft Managed Server HSM – NetApp 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 migrating infrequently accessed files where they remain available; instead of users or administrators deleting or archiving them
- 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 migrate seldom accessed files to less expensive or special purpose storage

### System Requirements

- Server running Windows 2000/2003 Server
- Pentium Processor or higher
- 512 MB RAM or greater
- Windows or NetWare Server utilizing NetApp SAN resources or 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 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 more.

CaminoSoft

CaminoSoft Corp.  
600 Hampshire Rd. Suite 105  
Westlake Village, CA 91361  
U.S.A  
1-805-370-3100

[www.caminoSoft.com](http://www.caminoSoft.com)

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