



Managed Server HSM™ Iron Mountain VFS Edition

Data Sheet

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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 home 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.

Iron Mountain VFS Edition Offers a Cost-Effective Solution

CaminoSoft's Managed Server HSM™ – Iron Mountain VFS Edition provides a straightforward, cost-effective solution for handling the complexities of data storage management. Iron Mountain VFS Edition offers all of the features of CaminoSoft's standard Managed Server HSM, including all source OS/file system platforms. In addition, the Iron Mountain VFS Edition provides support for Iron Mountain Digital's Virtual File Store (VFS) archiving appliance and back-end storage "cloud". The combined storage options made available by the Iron Mountain VFS Edition provide a storage hierarchy capable of virtually infinite storage growth with increased data availability – while satisfying regulatory requirements for data retention.

Iron Mountain VFS Edition - How it Works

Like our standard Managed Server HSM solution, Iron Mountain VFS Edition enables the administrator to configure policies governing the archiving of seldom accessed files.

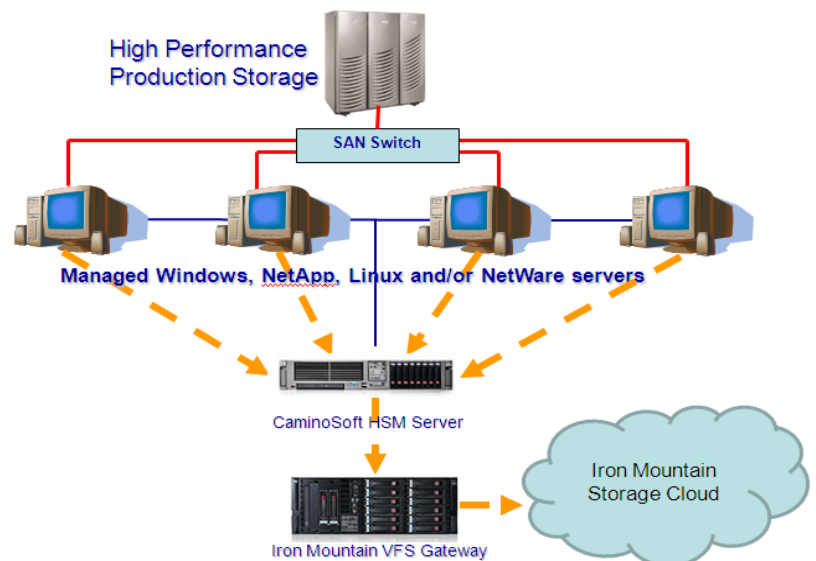
Using the VFS appliance as the target storage device, Iron Mountain VFS Edition extends this functionality by providing the ability to migrate files further along a storage hierarchy to the Iron Mountain storage cloud. The policy-driven engine provides for "lights-out" operation, reduces the time and 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.

Iron Mountain VFS Edition Benefits

Iron Mountain VFS 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 over the VPN network to Iron Mountain's secure, redundant data centers.

Managed Server HSM Iron Mountain VFS Edition Key Features

- Provides all the features of Managed Server HSM for Windows 2000/2003/2008, NetWare, NetApp and Linux
- Adds support for Iron Mountain Digital's Virtual File Store (VFS) cloud storage
- 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 – Iron Mountain VFS Edition, running on a Windows 2000/2003/2008 server, manages files on remote servers – archiving seldom accessed files to the Iron Mountain Virtual File Store (VFS).

Data Sheet: Managed Server HSM™ Iron Mountain VFS™ Edition

Today's IT Reality and Challenges	Iron Mountain VFS 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"> Reduces or eliminates the need to expand primary storage by relocating static, infrequently accessed files to a "virtual" storage resource; 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"> VFS storage grows automatically and infinitely as demand increases. As files age and become less active, they are automatically moved to VFS storage leaving more room on expensive, primary storage for active files
<ul style="list-style-type: none"> 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 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"> Enables backup solutions to focus on active, production files by protecting only the reference information (stubs) for the files that were migrated to the VFS storage (as much as 80% or more of the total volume of data) 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 migrates files to VFS storage – 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 via dynamic expansion of VFS storage Enables policy control to extend the life of existing storage resources by migrating additional files to VFS storage 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
<ul style="list-style-type: none"> Identified files can be subject to data retention requirements (Sarbanes-Oxley, HIPAA, SEC, etc.) often requiring sophisticated, specialized applications for compliance 	<ul style="list-style-type: none"> Iron Mountain VFS Edition combines with VFS data retention capabilities to allow policy settings to dictate how long files are retained within VFS storage. 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 – Iron Mountain VFS 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 to backup production files and, more importantly, reduces the time needed to recover a failed server; once again preventing costly downtime
- Provides access to regulatory compliant storage from virtually any set of file-system based files

System Requirements

- Server running Windows 2000/2003/2008 Server
- Pentium Processor or higher
- 2 GB RAM or greater
- Source platforms include: Windows NTFS, NetApp filers, Novell NetWare NSS and SUSE Linux
- CaminoSoft Managed Server HSM – Iron Mountain VFS Edition software
- Iron Mountain Digital Virtual File Store (acquired separately from Iron Mountain Digital)

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