

FileStor-CDP & FileStor-HSM

FileStor-CDP

- Protects monitored files continuously and in real time, without administrative intervention
- Empowers end-users to restore and recover files easily and transparently
- Minimizes risk by delivering centralized and corporate data protection
- Controls cost by reducing administrative overhead and improving storage efficiency

FileStor-HSM

- Migrates inactive files from Windows File Servers
- Simple installation and configuration
- Integrates seamlessly with Microsoft File Servers
- Offers online failover capability

FileStor-CDP Overview

The FileStor-CDP software application copies files from Windows-based laptops and desktops to SPHiNXTM. FileStor-CDP provides end-users corporate protection by centralizing data protection at your data center. This allows your business to retain control over corporate assets to meet regulatory and compliance requirements. The application empowers your employees to restore and recover files lost due to human and technological errors like accidental deletions or physical disk crashes.

Key Features & Benefits

Transparent & real-time data protection

FileStor-CDP copies selected files from local PCs to the SPHiNX data protection archive. It monitors the end-user's files delta changes and automatically backs those up to SPHiNX without work pattern interference, and minimal performance and network workload. FileStor-CDP maintains multiple versions of each file for restore. The solution monitors files for changes and protects monitored files when saved or closed, ensuring recovered data is as recent as the last save.

Self-serve recovery

The user-friendly interface makes file recovery easy for employees. Versioning allows users to retrieve any version of a file, giving them unlimited undo capabilities and a complete record of their file history. FileStor-CDP has the built-in capability to check differences between revisions stored in the archive and to retrieve any previous version of the file. FileStor-CDP also enables employees to set the maximum number of revisions they want accessible. Or, users can automatically discard revisions created before a certain date.

Corporate protection

In contrast to a plethora of disparate and point solutions installed by employees to secure their laptops and desktops, FileStor-

CDP offers a holistic and centralized data protection solution by automatically securing files from local PCs to SPHiNX. FileStor-CDP enables secured data to reside in a central repository within the corporate data center, protecting your company's intellectual property assets. Additionally, you have the ability to collect files for legal discovery to meet regulatory compliance requirements.

Cost savings

FileStor-CDP minimizes the need for IT assistance, improving productivity and lowering TCO. Auto purging and revision consolidation provide storage efficiency by saving disk space and stopping archives from growing too large.

FileStor-HSM Overview

FileStor-HSM software application provides systematic migration of inactive and rarely-used data on Windows File Servers to the SPHiNX data protection archive. This migration is transparent to end users, meaning inactive data is physically migrated but still readily visible and accessible at all times.

Key Features & Benefits

Seamless & flexible archiving

As a plug-in to MS Explorer, HSM is a non-intrusive addition to MS File Servers, integrating into the file system using the Microsoft Management Console (MMC). Migration, release and recall processes are transparent to employees and applications, and users still continue to access files as if they were stored on the MS File Server. Simple to install and configure, FileStor-HSM requires no external database, and files in the managed file system path can be deleted, renamed and moved.

Policy-based migration

Administrators set policies defining which files should be migrated or released. Policies are based on file properties including file

type, timestamp or size. By monitoring space on managed volumes and automatically releasing migrated files based on volume size watermarks, FileStor-HSM allows files to be migrated to one or more archive targets.

Availability & reliability

Fault-tolerant access to data is supported since FileStor-HSM allows multiple copies of data to be written in parallel to separate archives. If one archive fails, FileStor-HSM automatically recalls data from a secondary archive. Duplicate copies are migrated to archives, so remote copies can be accessed even if the file system fails. Also, most major backup applications can back up metadata that supports offline files. To enhance data accessibility in the event of a file system failure, FileStor-HSM supports MS Server Clusters.

Cost savings & performance gains

FileStor-HSM lowers costs for backup infrastructures and media. By freeing up valuable disk space on File Servers, HSM reduces network traffic during backup operations. More importantly, FileStor-HSM shortens the backup/restore window, which reduces backup equipment and media expenses.

Interfaces & utilities

- User interface integrated into MMC
- Microsoft Explorer plug-in for manual migration, release and recall of files
- Command Line Interface

FileStor-CDP Specifications

Supported Back-end Storage Systems

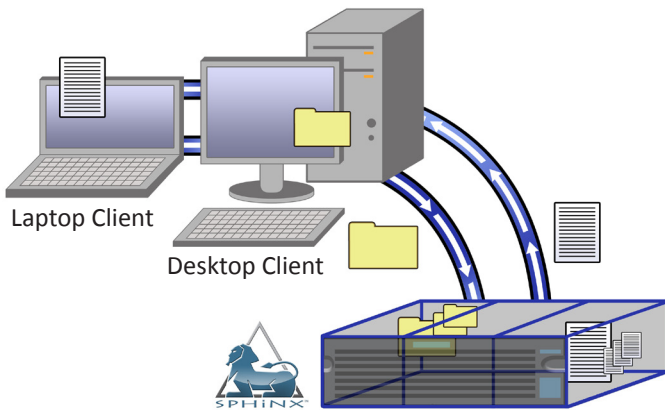
CIFS-connected SPHINX-EX storage system

Supported OS Versions

Microsoft Windows XP

Microsoft Windows Vista

Microsoft Windows 7



FileStor-HSM Specifications

Supported Back-end Storage Systems

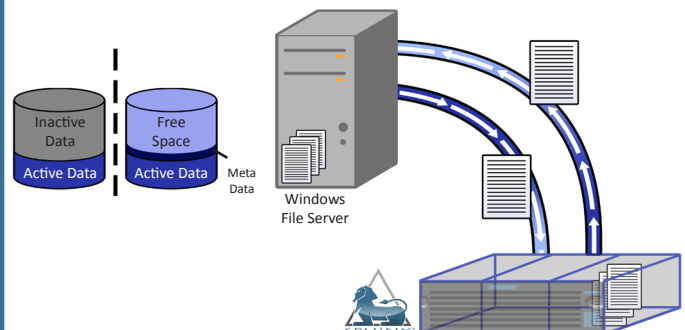
CIFS-connected SPHINX-EX storage system

Supported OS Versions

Microsoft Windows Server 2003 SP2 Standard & Enterprise
Microsoft Cluster Support

Microsoft Windows Server 2003 R2 SP2 Standard & Enterprise
Microsoft Cluster Support

Microsoft Windows Server 2008 R2 SP2 Standard, Enterprise
& Data Center Editions
Microsoft Cluster Support



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ABOUT CROSSROADS

Crossroads Systems, Inc. (NASDAQ: CRDS), is a global provider of solutions and services that ensure stored data is proactively protected and reliably recovered. Crossroads offers organizations powerful data protection, proactive data security, intelligent storage connectivity, unmatched performance, and significant cost savings. Founded in 1996 and headquartered in Austin, Texas, Crossroads holds more than 100 patents granted and pending and has been honored with numerous industry awards for innovation in data protection and storage. Visit www.crossroads.com.

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