

InveStore v5 – Fast, Secure and Energy Efficient Archive Storage

Hard disk performance for active archive backed by cost effective removable media for data at rest

PRODUCT OVERVIEW

Data protection, security, access speed and power consumption are all key decision factors in deployment of an archive storage system. InveStore v5 addresses the most stringent critical archive requirements in a solution that is proven safe, reliable and cost effective. From small to enterprise configurations, this powerful storage management software is a feature-rich archive data management tool that delivers fast active data access coupled with secure and environmentally friendly removable WORM media for archive and compliance based applications.

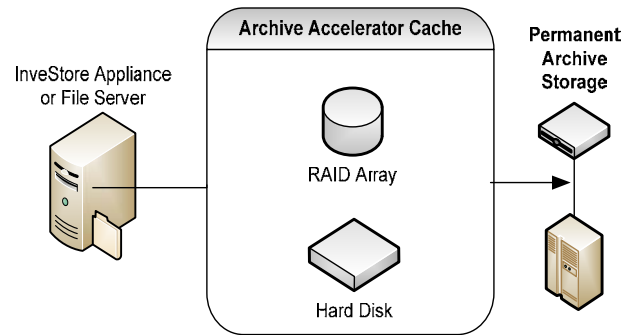
PROTECTING THE ARCHIVE

While removable WORM (physically non-erasable) media is considered one of the most secure and cost effective forms of archive storage, access to specific information can be delayed during “spin-up” and media movement in automated libraries. This creates delays during times of numerous retrieval requests. However, moving critical data from disk to off-line media greatly increases security and disaster recovery options and saves power by not requiring duplicate expensive disk systems at separate locations. The combination of hard disk and removable archive media is a perfect match. Users have superior fast access and the peace of mind knowing that all critical data in the archive is protected on permanent cost effective WORM media.

Pegasus has added magnetic disk as a transparent tier of storage to an InveStore managed archive. InveStore v5 can utilize a wide range of magnetic disk as a high availability archive accelerator cache. This is not an application cache or layer that requires complicated configuration settings. With InveStore, all data written to and read from archive is placed in the high archive accelerator cache. All critical data is written to hard disk as well as permanent WORM media and Pegasus’ Digital Signature feature prevents any tampering with the data while it resides in the archive.

The purpose of the high availability archive accelerator cache is three-fold:

- 1) Writes occur at on-line hard drive speed.
- 2) Reads from magnetic disk are optimized to eliminate any removable media latency for frequently read data.
- 3) The archive accelerator cache significantly reduces the wear and tear on removable archive media and libraries. The result of utilizing InveStore v5 with disk and removable media is that the stability and longevity of the end-user solution is greatly improved.



InveStore Differentiators and Enhancements

The key differentiators of InveStore include:	Key differentiators of InveStore with High Availability Accelerator
Single common interface to multiple archive hardware and media platforms	Adds disk-based protected archive without changes to the user interface
Integrates transparently with market leading Email, Document Management and Archiving applications	Delivers instantaneous access for applications in addition to maintaining the critical archive data on removable WORM.
Secure WORM-based archive with off-line media management.	Adds additional security and data authentication features without sacrificing speed.
Central management of system through application centric and easy-to-use MMC UI console	Simple to implement: Two parameters provided via MMC UI: <u>size</u> and <u>location</u> of cache.

Benefits to Customer

- Reduces end-user critical data access delays on the archive system. Blends the speed and efficiency of magnetic disk and the reliability, security and cost effectiveness of WORM media
- Provides long-term seamless access to archives on mixed hardware and/or new evolving technologies
- Time proven secure, reliable and compliant solution helping to prevent the loss of critical archive data
- **Simple to use. Trusted to deliver. It works.**

**Key Product Features and Most Commonly Asked Questions –
What are the most compelling features and what sets InveStore apart from other solutions?**

InveStore was designed, from the very beginning, to be a single point of entry archive storage management system. Its powerful file management and hardware agnostic support has provided thousands of installations with the freedom from specific or limited file formats and compatibility with a wide range of current and legacy storage hardware. This now includes magnetic disk configurations and new removable media types for even more cost effective off-line WORM storage.

InveStore was built on a strong foundation designed to support the features and functionality needed to address the tough requirements now facing almost every corporate user that stores any customer or consumer data. In addition, users continue to demand more efficient storage and utilizing InveStore with fast access media for current archive and longer term off-line WORM for deep archive, you save money and conserve energy while maintaining compliance in the archive.

Key Features of InveStore v5	Compared to other approaches	Benefit to the Customer
InveStore v5 uses Digital Signatures to validate and secure critical archive data. Data is protected utilizing a secure hashing algorithm to ensure validity of critical end-user archive data.	Digital Signatures are not supported in most competitive products, leaving data in cache unsecured and vulnerable to loss or other potential corruption.	Provides archive compliance, authenticity and security of the archive. Data is proven valid on each.
InveStore utilizes 3 simple and flexible archive data write algorithms: Write Now, Write on Close (of the file by the application) or Write Later (when system is inactive)	HSM products typically require significant set-up of migration properties and there are windows of time when data is only on magnetic without the security (or protection) of Digital Signatures.	While providing instant access via the high availability cache, a user can configure when to write to removable archive based on connected hardware, batch schedules, etc.
InveStore v5 is very easy to install and upgrade: InveStore adds 2 simple questions to the 5-minute standard installation: Location of disk cache? (local, sever, SAN, NAS, etc) and how large? (in GB)	Other archive management software requires several and sometimes complicated questions for each individual volume or volume sets, or does not support caching of protected data outside the local drives/volumes.	The user has the flexibility of using a wide range of locations for configuring the high availability cache on magnetic disk. InveStore reduces system administration costs and maximizes available resources.
Archive repository, even though made up of a combination of storage hardware technologies, is accessible as a single access point regardless of where the archive data resides. Fast access comes at hard disk speeds while backed by long-term cost effective WORM media.	Other archive management software requires the installation of separate modules to support disparate archive hardware technologies, resulting in increased cost. Overall user acceptance of the system is also affected by poor performance and additional system administration requirements.	The user is protected from costly conversions. InveStore protects the user investment in archive hardware. Additional technologies and capacities can be added without application changes.

Answers to questions about InveStore:

How does it look to the Windows operating system?

Regardless of what combination of supported archive hardware is attached, it's accessible as a single file system or volume access point. Users can create individual volumes and organize data based on application needs. InveStore handles all media, library, cache and data security functions.

Is InveStore an HSM package?

Although InveStore writes data to different tiers of storage, local and/or network hard disk and removable, it's not file migration software. No complicated file migration set-up or utilities are required. Critical data is stored on fast access magnetic disk and removable WORM media for long-term storage and compliance.

OK, I want to use InveStore to manage my archives. What applications run with the InveStore software?

Pegasus partners with a wide range of independent application solution providers in the Financial, Medical, Insurance, Transportation, Hospitality and Government sectors. In addition, InveStore is supported by many of the leading back-up, disaster recovery and email archive solution vendors on the market today. For more information about a specific solution, please contact Pegasus. OEMs, ISVs and end-users utilize InveStore because it's:

Simple to use. Trusted to deliver. It works.