

InveStore v5 with Performance Archiving

Protected and secure: hard disk efficiency backed by cost effective removable WORM for long-term storage

PRODUCT OVERVIEW

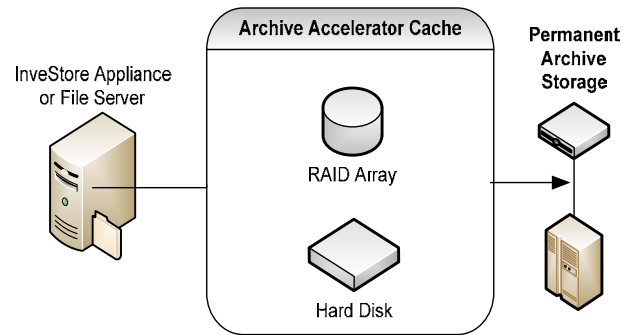
InveStore - For small to enterprise configurations, this powerful storage management software is a feature rich archive data management tool that delivers fast active data access coupled with secure and environmentally friendly removable WORM media for archive and compliance based applications. Data 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.

PROTECTING THE ARCHIVE

While removable permanent WORM (physically non-erasable) media is the most secure and cost effective form of archive storage, because it is removable and moved during access in an automated library, access to specific information can be delayed during "spin-up". Automated libraries can also create delays during times of numerous retrieval requests. However, the ability to move data from magnetic disk to off-line media would free up on-line active archive space, keep disk growth under control and save power. The combination of hard disk and removable archive media is a perfect match. Utilizing hard disk for access speed is an important part of delivering an archive solution that solves daily operational concerns. But, it's critical to protect and secure all data, especially stored on magnetic disk.

Pegasus has added disk as a tier of storage to an InveStore managed archive. With InveStore's caching implementation, the user can configure the software to utilize a wide range of hard disk for archive data caching. All writes are cached to hard disk first and, Pegasus' Digital Signature feature prevents any tampering with the data while it resides in the cache.

The purpose of the cache is three-fold. First, writes occur at on-line hard drive speed. Flushing of data cached on hard disk to permanent media occurs in the background during periods of inactivity. Second, reads are also cached. The Pegasus cache is also optimized to eliminate any removable media latency for frequently read data. Pre-reads are incorporated into the caching process. Third, the Pegasus caching functionality significantly reduces the wear and tear on removable archive media and libraries. The result of utilizing Pegasus' protected cache with 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 v4 include:	Key differentiators of InveStore v5 with Performance Archiving:
Single common interface to multiple archive hardware and media platforms	Adds disk based protected archive caching without any 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: size and location 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.**

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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. Archiving is a long-term application and user requirement. The data must be secure, you must have access to it when needed and that access may come long after the initial data was stored.

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 both hard disk and removable 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 access regardless of whether it is WORM media or not.
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 protected 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: Where do you want the protected 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 protected magnetic disk. InveStore reduces system administration costs and maximizes available resources.
There are no size limitations to the cache, volumes or total storage in the archive.	Users are limited to a specific number of GB of cache per volume	Applications and users have the flexibility of designing what best suits the users needs.
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:

If I already have InveStore, how do I install this new functionality and begin using the archive-caching feature?

InveStore v5 has the same simple standard installation as InveStore v4. When installing InveStore v5, you do not lose any existing data. In addition, InveStore v5 does not have to rebuild existing v4 volume directory cache files. Two additional settings are added to InveStore Registry, documented in a one-page “Enabling the Performance Caching” sheet. The user or system admin simply selects a hard disk location and size for the performance archiving cache – the default is Caching Off. When configured, all subsequent writes and reads to any volume (new or previously written) are cached to the selected magnetic disk location. Files are kept in the cache based on the size of the cache that is available. The oldest files drop out first, replaced by the latest files written to or read from removable media.

Is InveStore an HSM package?

Although InveStore moves data through the different tiers, from RAM to hard disk to optical, is not file migration software per se. InveStore is primarily an archive management system that provides for secure and protected storage of critical data on magnetic disk and other removable archive media. 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.**