



Storage Management Software

Special points of interest:

Summer 2004

- New Upgrade version of InveStore
- How to integrate with VERITAS Data Lifecycle Manager
- New Annual Maintenance Program with Free Upgrades

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PEGASUS DISK TECHNOLOGIES, INC.

# The Pegasus Flyer

## InveStore v4.2 is now Available

Pegasus is pleased to announce our latest update for InveStore v4. This is the most feature rich enhancement to InveStore to date. In this update you will find significant performance enhancements, added device support, and new recovery features.

Here is a list of enhancements in v4.2

- **Increased block size for the buffer value used in the algorithm to write data to the storage target:** This modification significantly increases the throughput of UDO, Pro-Data, MO, and DVD-RAM devices.

**Please note:** The benefits of this modification is best realized when using InveStore v4 in **Lazy-Write** mode coupled with average file sizes of 256 KB or higher. Greater system RAM is allocated for the increased buffer value. Servers configured with the maximum allowable RAM will see the most improvement.

- **Added internal drive caching ability for UDO devices:** This modification further increases the throughput for UDO specific devices due to the large buffer size in the UDO onboard cache.
- **Modifications to the “SCSI Transfer Size” used to write data to the storage target:** The additional improved throughput performance for this change applies to all SCSI devices that InveStore supports.
- **Ability to unmount and rebuild cache**

**for a specific volume set while it is still inside of the storage library:** The storage system continues to be online and active. This feature will eliminate the need to delete all cache files and re-inventory all volume sets to rebuild the archive directory cache files, and significantly reduce recovery time from a corrupt directory cache issue.

- **Ability to use mixed media types in UDO storage libraries configured with both MO and UDO drives:** These devices may use both MO and UDO media types in the same library adding to the return on investment from upgrading to UDO from MO.

We are also pleased to announce a number of new supported devices in this release update as well.

- ASM PDD-Series Libraries
- ASM DVD-Series Libraries
- DSM TeraStore-Series Libraries
- HP UX-Series UDO libraries including mixed media versions
- Plasmon G and GX-Series libraries including mixed media versions

**This same version update is free for v4 customers with an active service contract with Pegasus. If you do not have an active service contract and would like to update or upgrade your software call us at (925) 314-1800 or contact us via email at sales@pegasus-afs.com**

### Definition

**File System:** A data structure that translates the physical (sector) view of a disc into a logical (files, directories) structure, which helps both computers and users locate files.

## Tech Tip: Integrating VERITAS Data Lifecycle Manager & InveStore v4 Together

Tech Tip  
provided by:  
Steve Heyer

Veritas Data Lifecycle Manager (DLM) is designed to archive data based on archive and retention policies that you have setup within the DLM program. DLM Server is responsible for storing data to the various media sets that you have created.

InveStore is responsible for controlling the storage library, and for providing access to the storage resource via a drive letter on the storage server.

DLM archive policies let you control what data is eligible for archiving. Data is archived into **DATA STORES**, which are logical groups of media that contain archived data and obtain storage from media sets. A **MEDIA SET** is a physical pool of “like” media that provides storage to the data share.

InveStore allows DLM to archive the data to storage media via the shared drive letter assigned to the storage device on the local DLM Server. The InveStore controlled storage media becomes a media set for DLM.

The DLM **Administrative Interface** is a MMC snap-in used to remotely create, run, and schedule jobs.

### Creating Media Sets

**Note:** You must first create a share for the InveStore targeted volume set via the drive letter on the storage server.

- Expand the DLM Servers and name the DLM server that will contain the media set.
- Right-click **Media Sets** and choose **Add Hard Drive Media Set**. After reading the Welcome screen, click **Next**.
- On the **Hard Drive Media Set** screen, provide a name and description for the media set. Click **Next**.
- On the **Add Shared Network Folders** screen, click the **Add Share** button. If the InveStore shared resource is **NOT** attached to the local server, specify the full path for the shared InveStore resource using UNC naming:

**Example:** \\Servername\InveStorev4\Volset1\Data1).

If the InveStore shared resource is attached to the local server, add the target path to the assigned InveStore drive letter for the storage

device, and the specific “folder” (Volume Set name) that you want to use in this backup operation.

**Example:** S:\VolSet1\Job1

**Note:** Make sure that the targeted Volume Set has sufficient free space to contain the data, as well as allowing for future maintenance.

- Click **Ok**.
- Back on the **Add Shared Network Folders**, click **Next**.
- The final wizard screen summarizes the configuration of the new media set. To confirm these settings click **Finish**.
- You may view the new media set in the Scope Pane of the Administration Interface. The full UNC name and/or path will show in the pane.

When the folder becomes full, DLM marks the share as Read-only. No more data will be archived to this media set. If more disk space is added to the folder, you can make the share Read-write.

### Creating a Data Store

- Right-click **Data Stores** and choose **New > Data Store**. The **New Data Store Wizard** launches. After reading the Welcome screen, click **Next**.

The **No Media Sets Available** message appears when archiving data to InveStore. Click **Cancel** and create the media set.

- On the **New Data Store** screen, you create a data store to hold the data from the agent.

The screen differs slightly depending on whether you launched the wizard from the **DLM Servers > server > Media Sets > Data Stores** node or from the **Data Stores** node.

- If you launched the wizard from the **Data Stores** node, you are prompted to select the media set you want to use for the new data store.

On the lower part of the screen, specify a name

Certified Archive  
Media Agent  
for  
VERITAS Data  
Lifecycle  
Manager

and description that will help you track the data store. Each piece of media is labeled with a name that begins with the data store name, so you may want to keep the name simple, and use the data store description field for more detailed information.

### Tech Tip Continued...

- If you launched the wizard from the **DLM Servers > server > Media Sets > Data Stores** node, you are prompted to provide a name for the data store. The wizard uses the media set from the node from which you started the wizard. Click **Next**.
- The final wizard screen summarizes the data store configuration. To confirm your settings and complete the wizard, click **Finish**. The final wizard screen summarizes the data store configuration. To confirm your settings, click **Finish**.

## Changing the number of threads used for writing to disk with DLM

Before using the DLM system with InveStore, for performance considerations with op-

tical devices, we suggest that you reduce the thread count used to write data to the media sets. If this is not done, DLM sees the optical device as a hard drive and therefore will attempt to start multiple threads, slowing the system considerably. Our testing shows that the best performance using optical is achieved by reducing the number of possible threads to just one. Please do the following:

- Open SQL Server Enterprise Manager
- Select the Microsoft SQL Servers
- Select the **Server Group**
- Select <server name>
- Select **Databases**
- Select the **Remote Storage Database** and then **Tables**
- Find the **RSMediaType** table
- Right click on the **RSMediaType** and select **Open Table**, and return all rows
- The seventh field is the **ConcurrencyFactor**
- The default is set at **4**
- Highlight this field and change it to **1**
- Then select the red ! in the tool bar.
- This saves the current value.

### Pegasus Jumps into ILM Program

## Pegasus joins HP Information Life Cycle Management Program

In support of HP's ILM partner program, Pegasus will provide archive media connectivity and support, as part of an ILM partner solution. Pegasus InveStore software offers archive storage management and archive media support for companies who manage their data and backup data protection with HP StorageWorks optical drives and

libraries. The flexibility and scalability of InveStore are ideal for the large-scale, single access point environments in which Pegasus customers already operate.

For more information regarding HP's ILM program go to:

[www.http://h21007.www2.hp.com/dspp/pp/pp\\_Overview\\_IDX/1,1419,78,00.html](http://h21007.www2.hp.com/dspp/pp/pp_Overview_IDX/1,1419,78,00.html)

## Pegasus Launches New Tiered Annual Maintenance Program

Pegasus is pleased to announce a new aggressive upgrade program that works in conjunction with our annual maintenance program. We are now moving to a two-tier annual maintenance system for customers who would prefer to have major upgrades covered in their annual maintenance expenditures. This two-tier program is only offered with our v4 installations.

*For v3x customers who want to upgrade, they may move into the Tier-Two program that will include a free upgrade to v4 for only the cost of the new annual maintenance coverage.*

If you *do not* have a maintenance contract and

would like to upgrade to v4, we have a program that will allow you to move into the Tier-Two maintenance program for approximately **30%** of the current list price of your specific v4 model number. This is a great opportunity to upgrade your InveStore solution and get back into the support program so you can get free upgrades going forward.

For program details, contact Pegasus sales at [sales@pegasus-afs.com](mailto:sales@pegasus-afs.com) or call (925) 314-1800



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The Pegasus Flyer



## About the Flyer

We are always looking for suggestions on content, particularly product stories with our hardware and software partners. If you have ideas or suggestions about future content, want to be added to our circulation or would like hard copies of the newsletter for your customers, please send us an email at [marketing@pegasus-ofs.com](mailto:marketing@pegasus-ofs.com).

## Up Coming Events

You can see Pegasus at the up coming events:

**DMS Essen Germany** Sept 7-9

**VERITAS Compliance Seminar Series** Sept 21-Oct 19th Germany: Munich, Hamburg, Berlin, Dusseldorf, Wiesbaden, Stuttgart, Vienna.

**BISYS Partner Conference** New Orleans, LA Oct 26-29

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