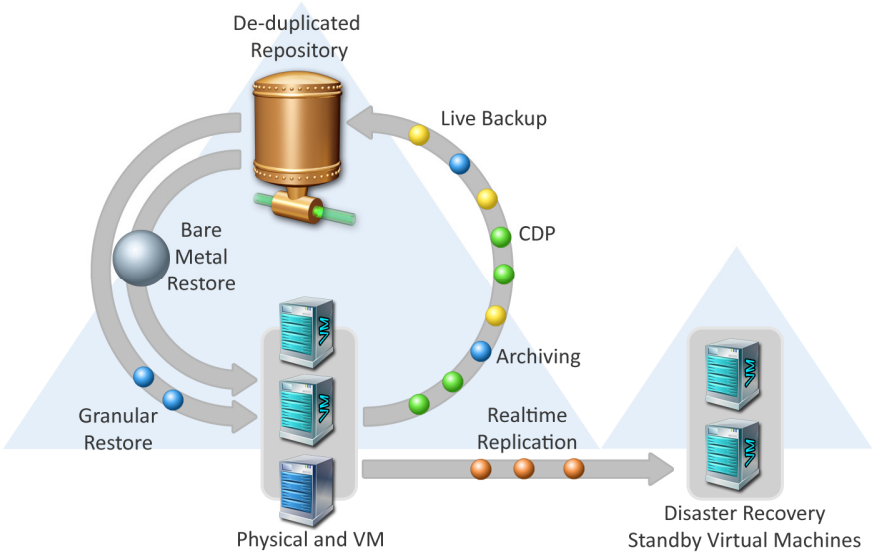
AIMstor™ Product Overview

Protecting Data . . . The Right Way

Protection of data storage has evolved from simple backup to a mind-numbing decision tree of different needs, accelerated by data growth, and made more complex by new demands for increased recovery and availability of certain data.

Adding Regulatory and Compliance needs to the equation is like throwing fuel on an uncontained fire. Trying to manage the different products required to accomplish these goals is an exercise in lost evenings and weekends.

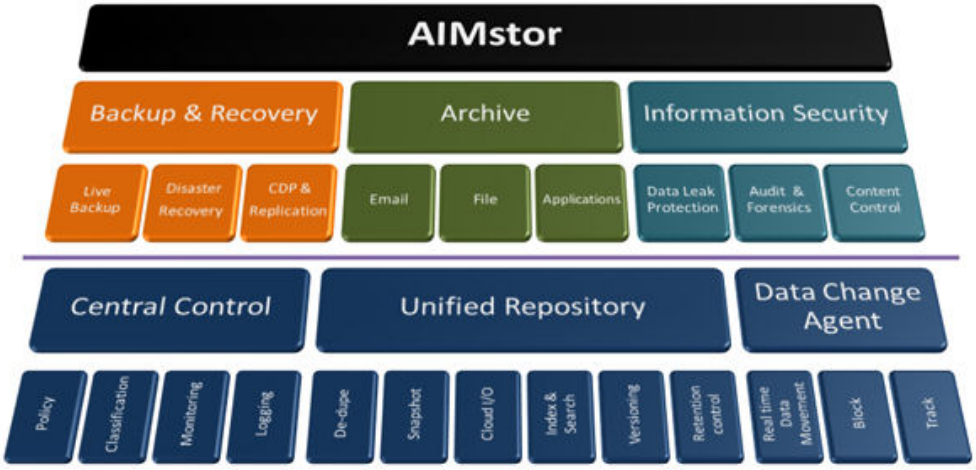


This is why AIMstor was created: to Unify Data Protection. With one application, one user interface and with hardware agnostic, multi-function repositories, AIMstor provides all the key data protection solutions normally offered by several single point products. One solution that provides:

- Real Time Backup and CDP
- Bare Metal Restore of Systems
- Local and Remote Server Backup
- File System Backup & Versioning
- Live Replication (Mirror)
- CIFS and Cloud Backup
- File Control, Tracking & Blocking
- Live Application Protection
- VM Backup and Live Replication
- Laptop Protection

Distributed Architecture

Unlike legacy products that work in client / server architecture, AIMstor's completely distributed architecture enables AIMstor to scale by sharing the roles and responsibilities across nodes on the network, and by sharing the same underlying set of data movers, metadata and policies.



➢ Live Backup

Very similar to CDP, but allows longer retention at a lower backup frequency.

➢ Batch Backup

A more traditional scheduled backup. The filesystem is scanned and changes are sent over to the repository. Only changed parts of a file are sent and stored.

➢ CDP

Capture and send byte level changes immediately to the repository thus allowing up to the second backups. Suitable for short retention of data but at a high backup frequency.

➢ Replication (Mirror)

Mirror a filesystem to another machine creating a hot standby for failover.

➢ Agentless Backup

Backup data in a batch mode using shares negating the need for client side software. Suitable for legacy backup and NAS and virtual machine Hosts.

➢ File Versioning

Each version of a file is captured and indexed in the repository. A new version is created each time a file is closed.

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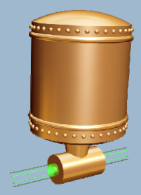

➢ Track

Track activity on a set of files, when a file was changed or who accessed a file. Track the CFO's files and create an audit trail.

➢ Block

Block creation or activity on given files. For example block messaging applications such as Skype.

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➢ Deduplication

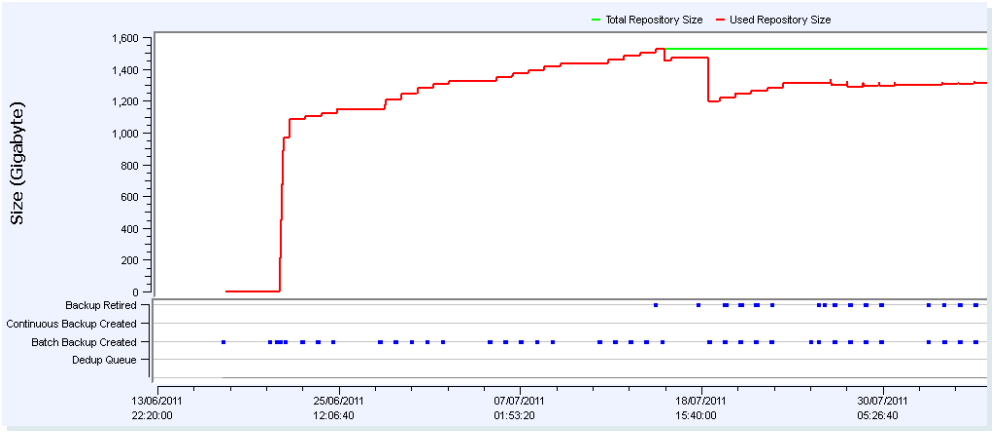
Unifies several deduplication schemes inherently, from the native backup process, to data transfer basic storage fundamentals.

➢ Unified Backup

A new generation of fully unified tools that remove the pain of old-world, "Legacy Backup". With AIMstor, all functions are fully unified for next-generation data protection and management.

Multi-functional Repository

The AIMstor repository is an object storage system that can simultaneously perform multiple types of storage operations. It's unique ability to be a Backup, Archiving, Versioning and CDP store enables it to employ several data reduction techniques delivering massive storage cost savings.



Multi-tiered de-duplication

AIMstor employs a multi tiered approach to de-duplication in real-time and batch modes.

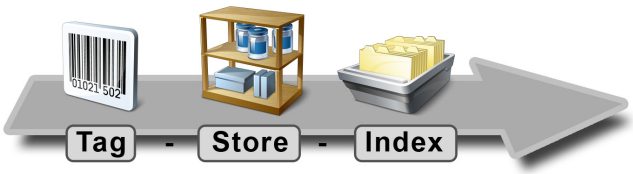
Source Side Changed Byte Transfer. Data will be analysed on the source machine and only data that is not already in the repository will be sent. For files that already exist within the repository, only changed bytes are moved.

Source Side Global. If multiple machines are backed up the common files will be noted and the repository will only request new files from any of the machines, greatly reducing network traffic on initial seeding and resynchronizations.

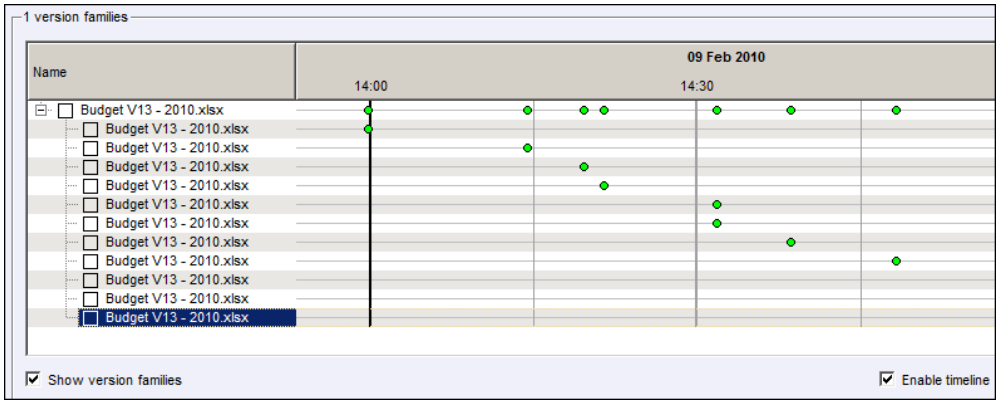
Repository Side. The repository will analyse data once captured. Any common data is de-duplicated such that only a single instance of the data is kept. Data across Backup, CDP and Versions is de-duplicated.

Built-in search engine indexing

The repository has an industrial strength indexing engine enabling millions of objects to be index.



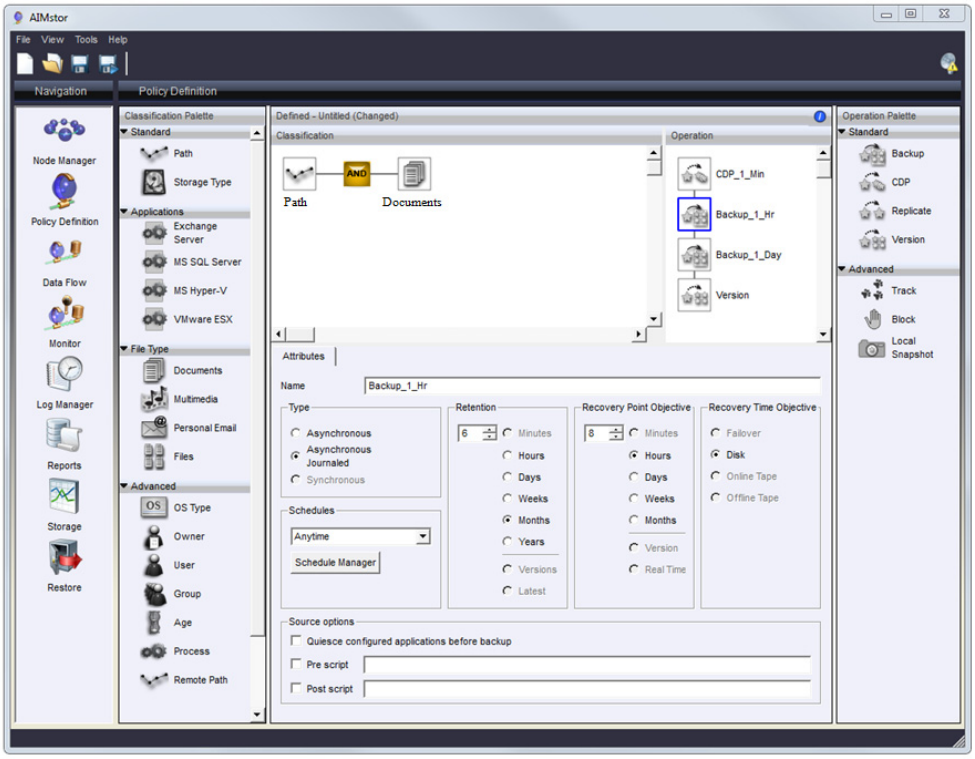
This powerful search facility allows files needing to be recovered to be located within seconds without the need to browse through filesystem trees looking for them. Whole version trees of specific files that have been changed and saved multiple times can be tracked over time, then searched for and recovered in seconds.



Each repository has its own index engine enabling the restore searches to be federated between all repositories in parallel ensuring scalable performance.

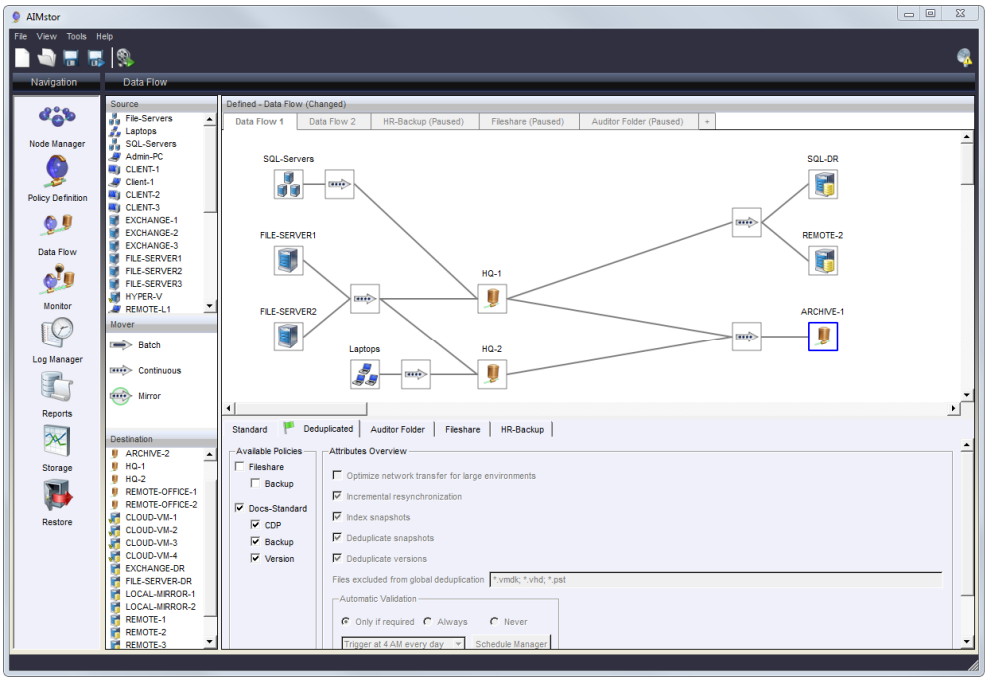
Workflow Interface

AIMstor thinks like a “whiteboard”. You draw out what you need in the form of icons, and then AIMstor compiles a policy and does all the work. Just like you envisioned it.

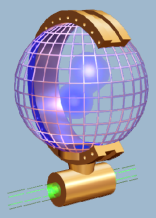


This facilitates the easy setup of complex environments that mix core technologies such as Backup, Replication, Archiving and CDP into a single business process that is compiled and distributed in a highly scalable and efficient manner to all machines.

The Policy Definition screen allows you to classify data and decide how that data should be managed / protected. In the above example the user has defined that any documents in the user directory should be backed up locally and remotely and also versioned (archived). This will be applied to the File Servers and Laptops in the screen below.



Next, create your environment in the Data Flow screen via Drag and Drop icons to mimic your exact environment. Applying the right tool to the right data path, and decide how it all flows in your local and remote environments. This simplifies complex environment setup drastically. Later, any Policy and Data Flow changes you need to hundreds of machines and VM’s can be done in seconds (instead of days).



➢ Application support

Generic support for all mainstream and bespoke applications. Fully consistent VSS integrated backup for:

- MS SQL
- MS Exchange
- Oracle
- Hyper-V

➢ VMware ESX vSphere Protection

Support for VMware ESX, ESXi, server and workstation environments. Using the vSphere agentless capabilities for Changed-Byte-Tracking.

➢ Microsoft Hyper-V Protection

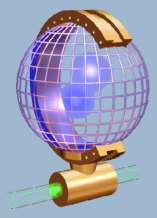
Support for Microsoft Hyper-V with VSS integration and automatic VHD discovery in any Hyper-V host. Backup, live CDP and real-time Replication for any Hyper-V host or VM at the agentless or agent level.

➢ Remote Offices

Smart Remote Sync (SRS) offers enterprise class sync between local and remote repositories. Ideal for private Cloud, remote hosting and MSP environments.

➢ Laptop Support

AIMstor’s next generation backup is ideally suited to laptop and workstation users as well, managing frequent shutdowns and travel over public networks.



➢ Dynamic Hydration

AIMstor utilizes dynamic-rehydration to recreate full snapshots on the fly as data is received, ensuring that restores are always working from a full snapshot to optimize restore speed and that common blocks are not duplicated to optimise storage space.

➢ Fully featured

- Centralized Control
- Email notification
- Backup report
- Advanced Reporting
- User-level Restores
- Self-Managing Clients
- Encryption
  - ⇒ Data at Rest
  - ⇒ Data in Motion

➢ Platform Support

Server OS

- Windows 2003
- Windows 2008
- Windows 2008R2
- Linux 2.4 kernel and above

Desktop OS

- Windows XP
- Windows Vista
- Windows 7

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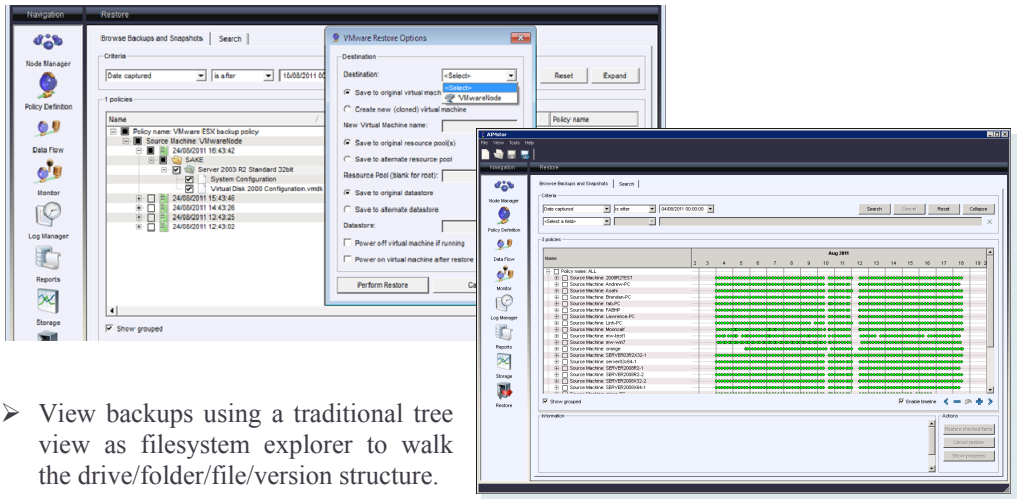
Flexible Restore

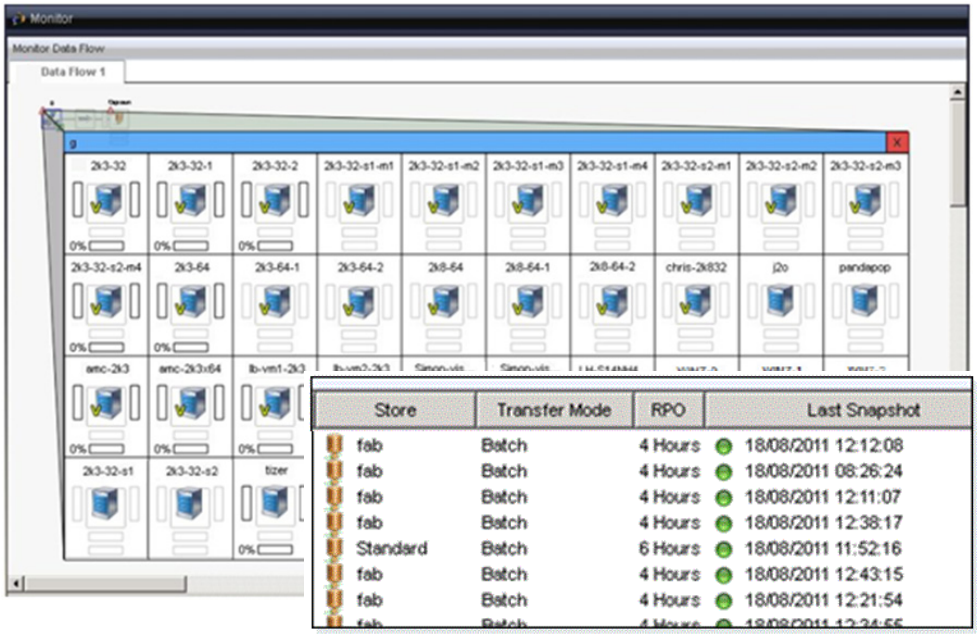
Restores are the most important part of any backup product, to be able to find the files to restore and restore them quickly is at the heart of the AIMstor product.



- View backups using a traditional tree view as filesystem explorer to walk the drive/folder/file/version structure.
- Or, search for specific files (*PDF from CFO on 31-DEC-2010*) with lighting speed results, even over 1000's of backups and millions of files.
- Mount the repository on a Windows box and use explorer to locate files that can then be simple dragged and dropped to the required location
- With a mounted repository use 3rd party tools to look inside exchange databases and recover individual mailboxes, mount VMware virtual machines and restore files from inside the VM and much more.

Monitor & Reports

Monitor in real-time any specific policy or job, showing machines, groups and VMs in their natural data flow and with full details on data transfers.



Reports can show any number of real-time events and status. Ranging from Recovery Point Objectives met (RPO for Source or Destination), to Tracking of file activity in live file systems.

Learn More

AIMstor Datasheets, Movies, Whitepapers and other Documents can be downloaded directly from the Cofio Website at: http://www.cofio.com/documents