

*File system and disk management software  
built for networked storage*



Melio fs

**Sanbolic** *is setting the standard for  
shared storage and computing*

*Melio FS is a clustered file system designed specifically for networked storage environments. It provides a solution to presenting shared storage as a single storage pool, enabling shared data access, horizontal scaling of applications, and clustered processing, as well as greatly simplified storage provisioning and management. It provides users with extensive new capability to utilize shared storage hardware, yet is very simple to use.*

*Simplify,  
Share Data*

**One File System for  
all Servers on a SAN**

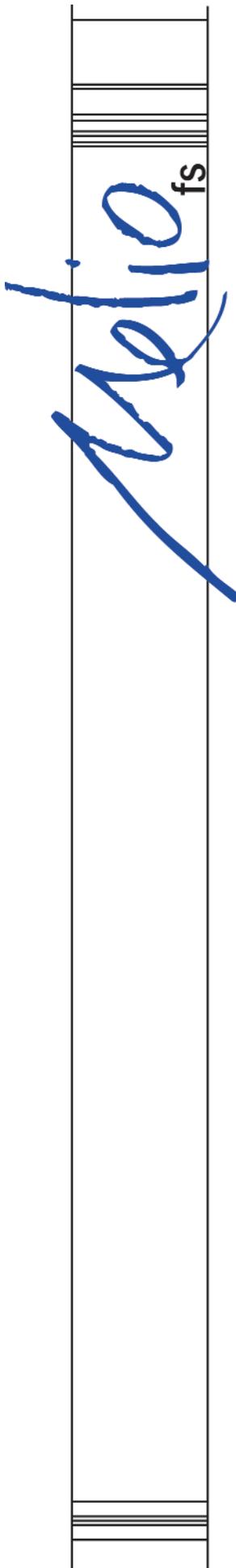
**Melio FS**

Melio FS can be shared by all servers attached to the SAN, and allows concurrent read and write access to files over high-speed fibre channel networking. Melio FS is easy to install, does not require additional hardware, and is almost transparent to the user. It addresses customer needs in workgroup environments, as well as enterprise data centers and cluster or grid computing applications.

#### **Simplified Server and Storage Architecture**

Melio FS enables servers and storage to be consolidated into a single fault tolerant cluster. All servers sharing Melio FS in a server cluster have simultaneous access to shared files and are easily managed as a single, highly available, scalable system. This greatly simplifies access to and administration of data and storage and improves computing resource flexibility. It also allows many applications to be scaled modularly by adding additional industry standard servers clustered into the common file system.

The symmetrical architecture and shared data access provide inherent redundancy. There is no single point of failure. The cluster continues to function normally when a server fails, and any server in the cluster can provide backup for all others.



## Concurrent Read and Write Access over Fibre Channel

Fast, low latency shared file access greatly improves workflow in workgroup environments, such as digital content creation, imaging, prepress, broadcast, and postproduction. Melio FS supports simultaneous reads and writes to a file on the common storage using fibre channel transport. For less demanding applications, such as video rendering, Melio FS supports Microsoft iSCSI initiators, allowing the use of existing Ethernet networking infrastructure. Standard file and volume level access control lists are cluster-aware, and any changes are enforced across the cluster.

The throughput available to large file applications is determined by the performance of the hardware and is not reduced by installation of Melio FS. All workstations are connected directly to the storage. The design of the file system enables quick access to files, independently of file size and number of streams.

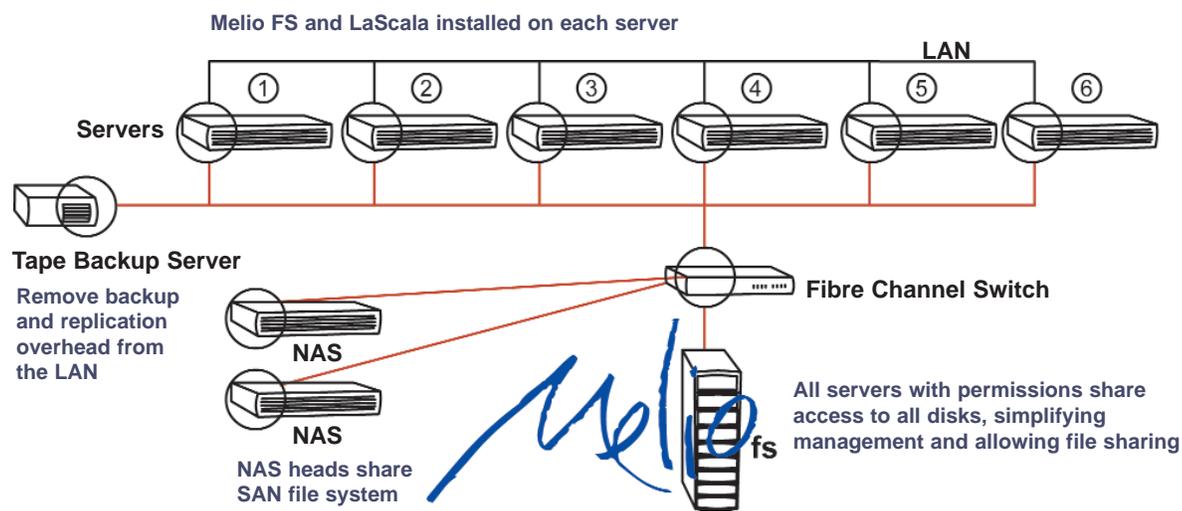


Diagram of Melio FS in a Workgroup Environment

## Examples of Deployments

### HD Video Post Production

- Provides concurrent read/write access to uncompressed 10 bit 1080i HDTV files
- Enables workgroup editing of uncompressed HDTV content, eliminating a key bottleneck to HDTV production
- 1 Gigabyte/second throughput from a shared volume in initial configuration

### Scalable Windows Server 2003 NAS Systems

- Any server in a cluster of Server 2003 NAS heads can handle any file request, since all access a common file system on the SAN
- All servers in the cluster are active, eliminating need for passive fail-over servers
- Add performance by adding additional NAS heads or storage dynamically
- Eliminates need for replication or manual file migration

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