

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

LaScala

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

*LaScala is a host-based SAN
volume manager incorporating
advanced transaction
management, locking, and
clustering technology, which
simplifies management and
improves flexibility and reliability
of shared storage environments.*

LaScala volume manager creates logical mountable volumes out of a set of physical disks. LaScala greatly simplifies the management of SAN storage, especially when storage pools span multiple heterogeneous arrays.

- Volumes are easily created out of the shared storage pool and uniquely assigned to servers.
- Volumes can quickly be expanded and/or reassigned without system reboot when storage requirements change.
- Volumes may be arbitrary combinations of volume sets, stripes, or mirrors.
- LaScala volumes provide very high throughput when striped across multiple RAID controllers, unlike other Windows volume managers.
- Multiple hosts can mount shared logical volumes and have simultaneous read and write access to shared files when using a clustered file system such as Melio FS.
- LaScala is a transactional volume manager, which can apply multiple changes in volume structure simultaneously and does not require system reboot.
- LaScala permits centralized administration of volume groups using an intuitive GUI. Any administrative and management operation can be performed from any host to any volume, based on native permissions.

LaScala is a host-based volume manager incorporating advanced transaction management, locking, and clustering technology, which simplifies management and improves flexibility and reliability of shared storage environments. Users can even provision a storage array as a single LUN, with LaScala being used to create and allocate volumes to servers. This greatly simplifies the migration to SAN storage.

Using operating system native file systems, LaScala provides easy-to-use disk management, including online configuration (e.g. creation, deletion, parameter modification, memory management), repair, hardware changes and other maintenance of shared logical volumes. The configuration operations are fault tolerant by the use of journaling for all operations. When used with Melio file system, multiple hosts have concurrent access to shared files striped across multiple storage controllers.

LaScala can handle hundreds of computers accessing very large pools of shared storage. The design of its communication and lock systems enables additional hosts and storage to be added dynamically. The system adapts seamlessly to the new configuration. New storage is recognized and is immediately ready to be used, without system reboot.

LaScala provides machine-level security in order to restrict the visibility of the volumes, and user level security to restrict the rights to perform configuration operations. Native security permissions can be used to assign administrative rights to any node.

LaScala is designed for ease of use and is essentially transparent to the user familiar with native operating system disk administration tools. Every operation possible with a normal volume is possible with a LaScala volume. Any modifications made to the volume structure are reflected immediately on all hosts that are affected by the change.

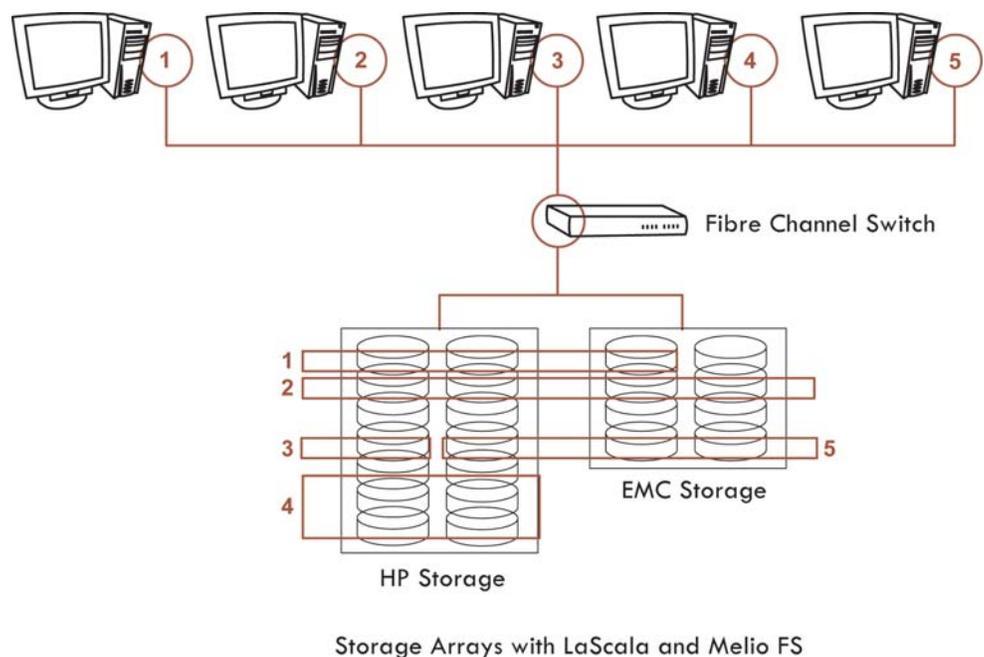


Diagram of LaScala and Mello FS

Key Specifications of LaScala

- LaScala can be used to manage SCSI, SATA, or Fibre Channel disks with up to several thousand disks per volume.
- No administrative server or meta data controller used.
- LaScala is installed on all nodes connected to the shared storage.
- In multi-host environments, a TCP/IP connection between hosts, either over Ethernet or through Fibre Channel networking is required
- Supports all native file systems for Windows 2000, Windows XP, and Windows 2003 family platforms, including Service Pack 2.

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