

Tape Products in Apple Xsan Environments

Introduction to Apple Xsan

Apple Xsan is an add-on Application Program Interface (API) that makes possible a high performance Storage Area Network (SAN) file system for Mac OS X. Xsan is a clustered file system that gives multiple users simultaneous high-speed access to all data residing on a centralized external storage pool. Xsan enables sharing of centralized disk storage with multiple computers over a Fibre Channel Network. Up to 64 Xserve and/or Power Mac systems can read and write to the same storage volume at the same time. This allows users better file collaboration and allows IT personnel to consolidate and manage ever-growing storage resources.

Protecting data on Apple Xsan Disk Storage

Xsan allows sharing of a storage file system across many servers and systems. The result is the ability of an Xsan client to have access to or see the file system and files in the shared storage pool. This shared access allows the Xsan client to copy the data to another storage device on the clients file system. This could be another disk storage pool, and/or Tandberg Data tape library.

Data Protection, the Backup process

Data Protection (Backup/Archive) software programs copy data from working storage locations to Tandberg Data tape products, disk or other storage locations. This supports a restore of the original data in the event of corruption. Data Protection (Backup) software manages, streamlines, automates, and schedules the copy/backup processes.



Data Protection (Backup) Software for Apple Xsan and heterogeneous environments

Tandberg Data Native Fibre Channel tape products along with backup software certified for Xsan provide a robust data protection solution for all Apple Xsan configurations including environments with mixed operating systems. There are many quality software solutions available for Xsan centralized storage environments. Backup software in heterogeneous configurations uses client services to access non-Mac servers.

Tandberg Data Tape Products and Apple Xsan

The Fibre Channel interface is an essential part of the Xsan file system allowing consolidation, increasing efficiency, flexibility, and scalability of storage resources. Tandberg Data Fibre Channel tape products can be connected directly into the Xsan Fibre Channel Architecture providing shared tape resources to the SAN. Tandberg

Data features native Fibre Channel connections to the SAN. Each tape drive and library automation control has its own Fibre Channel connection. This maximizes the speed of the interface, the reliability of the connections and facilitates SAN design flexibility. Tandberg Data also has a range of direct attach tape drives and libraries with

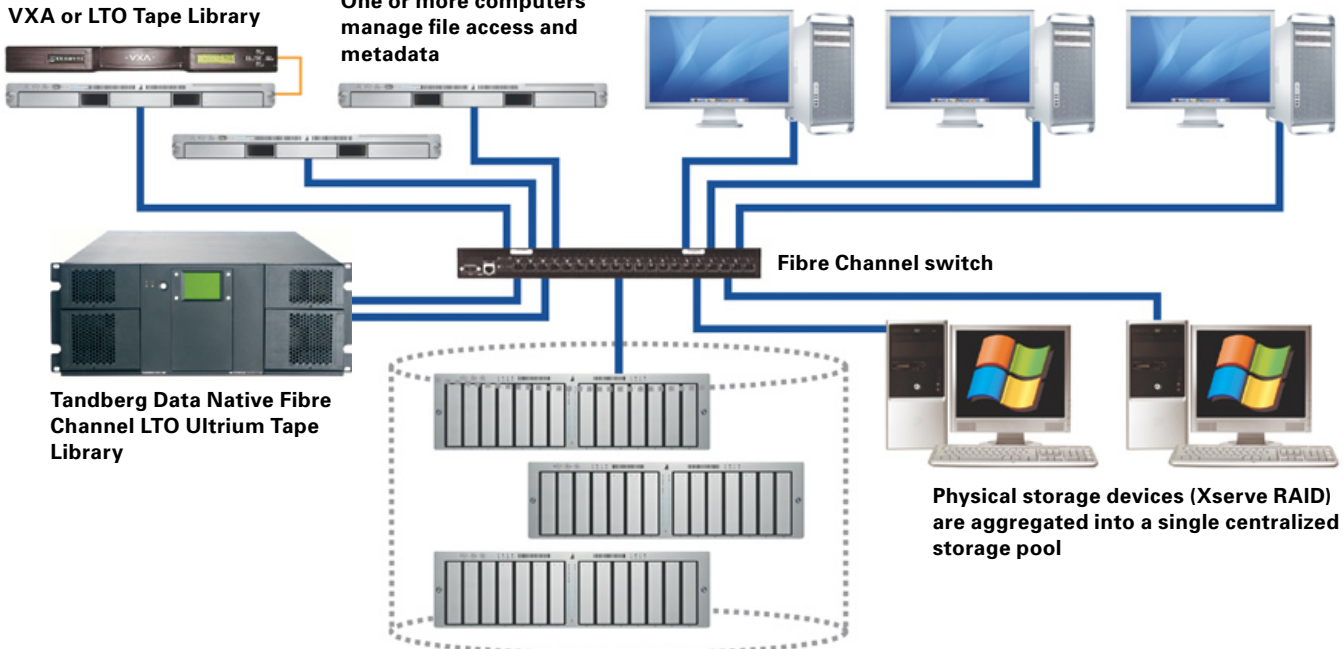
SCSI and FireWire connectivity that can protect Xsan centralized storage. All Tandberg Data tape libraries work well with Xsan topologies including Xsan enterprise integrations. For a complete list of solutions for Apple Xsan environments, visit Tandberg Data at www.tandbergdata.com or www.apple.com

Basic Apple Xsan

Tandberg Data SCSI or Firewire Direct Attached VXA or LTO Tape Library

One or more computers manage file access and metadata

Multiple computers connect directly to the Fibre Channel shared storage pool



About Tandberg Data: Tandberg Data is a leading global supplier of backup and archiving technologies. Tandberg Data offers a complete range of tape libraries, tape autoloaders and tape drives (based on the LTO™, SLR™, VXA® tape technology platforms), storage software, data media and disk-based storage such as the RDX™ QuikStor. These solutions are marketed exclusively through a channel of qualified resellers and distributors. These solutions are underpinned by OEM agreements with major server manufacturers including IBM, Hitachi, Fujitsu, Fujitsu-Siemens, Apple and Dell and supported by all major operating systems and storage software applications to operate in heterogeneous network environments. All solutions are designed to meet the growing storage requirements of small and medium-sized organizations with scalability, reliability and backward compatibility features that ensure cost effective operation and long-term investment protection.

Tandberg Data ASA
Økernveien 94
N-0579 Oslo
Norway
Tel: +47 (0) 2218 9090
Fax: +47 (0) 2218 9550

Tandberg Data Corporation
2108 55th Street
Boulder, CO 80301
USA
Tel: 303.442.4333
Fax: 303.417.7170

Tandberg Data GmbH
Feldstrasse 81
44141 Dortmund
Germany
Tel: +49 (0) 231 5436 - 0
Fax: +49 (0) 231 5436 - 111

Tandberg Data (Asia) Pte Ltd
20 Bendemeer Road
#04-05 Cyberhub
Singapore 339914
Tel: +65 (0) 6396 0786
Fax: +65 (0) 6396 0787

Tandberg Data (Japan) Inc.
Eitaibashi Eco-Piazza Bldg., 8th floor
29-13, Shinkawa 1-chome,
Chuo-ku, Tokyo 104-033, Japan
Tel: +81 (0) 355 662 871
Fax: +81 (0) 355 662 875