Digital Archive Management System for Media and Entertainment

Oracle's StorageTek Hardware with the XenData's Archive Appliance and eMAM Vault

Digital video production is growing faster than ever, so media and entertainment organizations are looking for cost-effective, reliable, and scalable solutions to store and access digital files for current and future use. The eMAM Vault turnkey package combines media asset management with an archive appliance from XenData and Oracle's StorageTek digital tape to create a highly scalable digital archive solution that is optimized for broadcasters, video production, post-production, and media organizations.

Solution Overview

Together, the eMAM Vault software with XenData SX series archive servers and Oracle's StorageTek modular tape library systems create highly scalable digital video archives that can easily keep up with the rapid growth of digital assets.

Key Features

- Web interface for Search, Browse, Archive, Restore and Deliver.
- HTML5 based proxy preview, annotation, markers and rough cut.
- Metadata management – create and edit unlimited custom metadata fields.
- Online, Nearline and Offline asset tracking.
- Managed transcoding for format conversion.
- Linear tape file system (LTFS) support prevents vendor lock-in.
- Seamlessly scales to multiple petabytes of near-line capacity.

Key Benefits

- Solution is tailored specifically to serve the media and entertainment industry.
- Proven archive management solution.
- Covers all archive needs, from scalable entry-level solutions to proven enterprise-level modular libraries.

SXL-SERIES

Oracle's StorageTek SL150 modular library combined with XenData's archive appliance and eMAM Vault archive management software in a scalable configuration.

Cost-Effective, Reliable, Accessible and Scalable Digital Archives

Simple Browser Interface

This solution provides a simple web browser interface to search and retrieve the content from the archive based on the embedded and custom metadata.

Flexible Archive/Restore options

Archive and restore options are available at the project, category (folder) and single asset level. The software allows groups of files to be allocated to specified pools of cartridges. Administrator-defined policies can be used to group related files together on the same set of cartridges.

Designed for Networks

The built-in RAID cache delivers high performance in a network, and the NAS architecture makes it easy to deploy using 1 GigE or 10 GigE interfaces.

LTFS Prevents Vendor Lock-In

LTO cartridges are written in either the LTFS interchange format or the open standard tape archive (TAR) format. The use of a standard, open, self-describing format prevents vendor lock-in. Proprietary formats mean that it is very costly to convert to another vendor, with the additional risk that future generations will be unable to access data if hardware is no longer available or supported .

Built-In Data Protection

The system automatically creates extra backup copies of LTO cartridges for offsite retention. Furthermore, the tapes may be rapidly imported into a replica DR system. eMAM Vault enables many flexible archive workflows to easily make redundant copies for safety or insurance purposes.

Strong File Version Control

The software provides comprehensive file version control and the interface to navigate through different asset versions and retrieve deleted files. eMAM provides a File Version widget for the user to easily see where the asset is being stored – source, archive or cloud.

Industry-Standard File Security

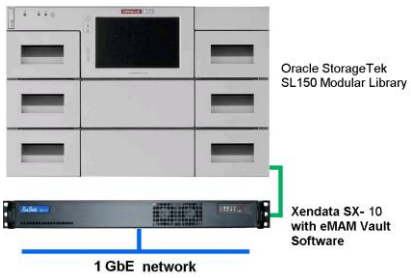
The archive server integrates fully with the Microsoft Windows security model based on Active Directory with role-based permissions, or it can maintain a user database.

Management of Unlimited Externalized Cartridges

The system manages any number of externalized cartridges, providing an unlimited total storage capacity. There are no license fees for externalized capacity. Proxy copies are available for search and preview, triggering a cue for loading offline tapes as needed for download or delivery.

VAULT SXL-1000

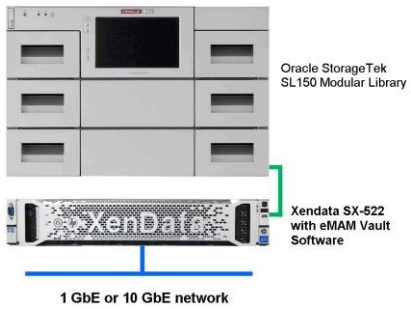
System is powered by a XenData SX-10 archive appliance and supports the StorageTek SL150 modular library



- 1 or 2 HP LTO-6 half-height drives
- 6 Gb/sec SAS tape drive interface
- 30, 60 or 90 slot library
- Touch screen front panel
- Web based asset search and preview
- Metadata management
- Intel Xeon E3 quad-core, 3.2GHz
- 32 GB RAM
- 4 TB SATA drive

VAULT SXL-3000

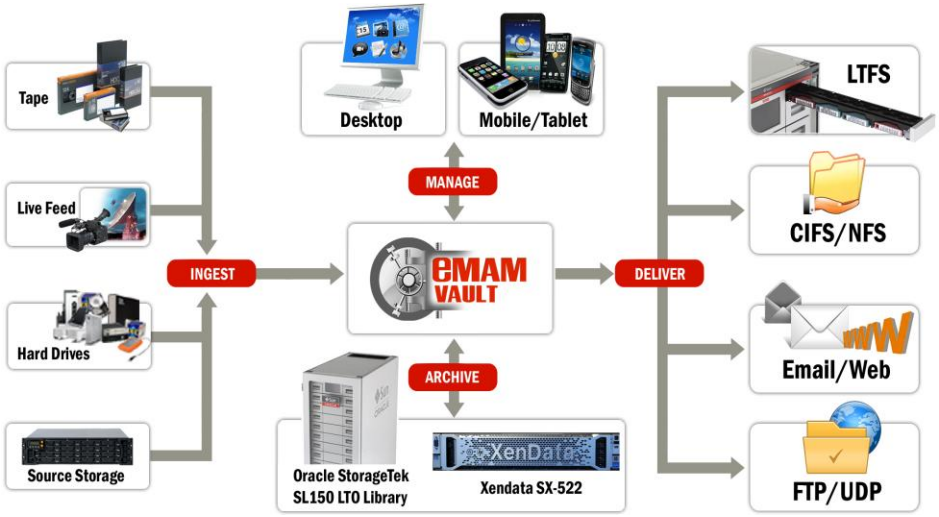
System is powered by a XenData SX-522 archive appliance and supports the StorageTek SL150 modular library



- 6 Gb/sec SAS tape drive interface
- 60 to 300 slot library
- Touch screen front panel
- Web based asset search and preview
- Metadata management
- 32 GB RAM
- 4 to 20 TB Archive RAID Disk Cache
- Dual 6-core Xeon processors. 6 to 20 TB of RAID-50 cache (SAS).

Workflow Management

The combined solution can manage different ingest, archive, restore and delivery workflows.



Selecting an Archive Format

Both digital tape and disk hardware systems are leveraged in media and entertainment archive environments, but the mix between digital tape and disk is evolving. Over the past several years, digital tape capacities have grown rapidly while increases in disk capacities have slowed. Today the highest capacity digital tape is 8.5TB while disk capacities are around half of that. Additionally, disk systems consume more power and are refreshed more frequently than digital tape, leading to a higher TCO. A detailed analysis of disk versus digital tape costs is available in a public report from a leading storage industry analyst company, The Clipper Group: oracle.com/us/corporate/analystreports/industries/clipper-tco-storage-2013-1959019.pdf?ssSourceSiteId=opn

Flexibility and Scalability

Oracle's StorageTek portfolio is engineered for digital archiving. Oracle offers the world's highest capacity digital tape technology and the most scalable digital tape libraries in the world. Together with eMAM software and XenData appliances, Oracle can provide a complete archive solution using:

Digital Tape Libraries	Digital Tape Drives
StorageTek SL3000 Modular Tape Library	LTO 5, LTO 6 (HP and IBM) Fibre Channel
StorageTek SL150 Modular Tape Library	LTO 5, LTO 6 (HP HH) Fibre Channel & SAS

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