

MediaStor Storage & HSM

The **MediaStor** File System aggregates multiple storage servers into a single unified structure, providing tracking and auditing of file histories as well as powerful metadata handling capabilities to empower even the most complex of broadcast workflows.

Designed specifically for broadcast media operations, MediaStor is a storage platform supporting hybrid storage models not previously known in the broadcast sphere.



Benefits of MediaStor

Flexible

Aggregates storage servers, archive platforms and other third-party legacy systems into a unified system empowering complex media workflows.

Secure

Fault tolerant storage with powerful options for file hashing and replication to ensure media is secure. Persistent audit trail enables users to stay in control of all media operations.

Scalable

Add capacity and/or bandwidth without impacting on existing operations. As faster or cheaper storage becomes available, reassign existing hardware to different operational tasks quickly and easily.

Automatic multi-tiered storage

Movement of files between RAID, MAID* and/or tape is handled automatically and transparently. This gives system administrators a range of options to make best use of existing hardware and protect future investments.

What storage hardware can be managed by MediaStor?

A MediaStor system can scale from a single server to a multi-node cluster comprising of:

- MediaStor Cluster node servers (online production/first tier storage) – internal and/or direct-attached RAID storage
- MediaStor archive servers (near-online/second tier storage) – hybrid internal, direct attached or network attached MAID (supporting “virtual LTO” operation) with SMR** technology
- LTO tape libraries
- Third party IT storage servers (e.g. Isilon)
- Third party broadcast media servers (e.g. Omneon)

What MAM/automation interface capabilities does MediaStor offer?

MediaStor has an optional SOAP API, which enables metadata exchange and media actions to be integrated with third party MAM and system monitoring systems. The optional MediaXchange and Aqua software modules, which can run directly on the MediaStor hardware, enable advanced media management and workflow automation to be added for a relatively small incremental cost.

*What is MAID?

Short for “massive array of idle disks”, MAID storage is an energy efficient way of archiving data. Unlike RAID (redundant array of independent disks), which are constantly spinning, resulting in increased wear and tear, as well as higher energy consumption, the disks in MAID storage only spin up when being read or written to. In a tiered storage system, MAID offers many of the benefits typically associated with tape.

**What is SMR?

Shingled magnetic recording or SMR is a method of recording data to a hard drive in such a way that tracks are effectively layered on top of each other in a similar way to the tiles on a roof. The reason why this is possible is that the write head is much larger than the read head. This technology means that you can increase the capacity of a hard drive and, therefore, reduce the cost of data storage.

Features & Benefits

- Clustered Storage with virtual file system on Oracle DB
- Resilient server architecture with private back-channel
- Installable File System or access via SMB/NFS/FTP
- 3rd party storage system mounting into virtual file system
- Media history auditing across all devices



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