

SeaChange® MediaServer MDS 500

QuickSpec

Scalable, High Density Library Storage for Video on Demand and RS-DVR Streaming

Combining the advantages of standards-based hardware with SeaChange's patented MediaCluster® technology, the SeaChange MediaServer MDS 500 is a streamer and scalable library storage solution that enables a new level of cost performance for advanced video services. With high density storage, scalable ingest and streaming, the MDS 500 is designed to meet the ever increasing requirements for video-on-demand long tail content and emerging RS-DVR applications.

BENEFITS

Highly reliable – SeaChange's patented and widely deployed MediaCluster® technology provides the foundation for the new MDS 500. MediaCluster interconnects video server "nodes" with a high performance, low-latency InfiniBand network to provide scalable streaming bandwidth and storage as a single system. Patented RAID²® (raid squared) technology stripes each video asset across all MediaCluster nodes, thereby ensuring stream resiliency in spite of hardware component failures, including complete node failure. Nodes can be added to a live MediaCluster and content will automatically be distributed to the new servers.

Scalable, high density storage – Employing 1TB SATA drives, the MDS 500 provides the highest storage density (Up to 5,000 hours of MPEG-2 SD content per 2RU) and scalability (35,000 hours of MPEG-2 SD content per 8-node cluster) in the industry. The MDS 500 also supports SAS (Serial Attached SCSI)/SATA (Serial ATA) storage expansion options, scaling storage independently of streams. The combination of RAID² and enterprise-class 1TB SATA disk drives provides the most

reliable, compact, and scalable library storage with the fewest spinning disks. The storage capacity of the MDS 500 can be further scaled with 2RU storage expansion arrays (5,000 hours of MPEG-2 SD content per 2RU).

Clustered memory ingest – The MDS 500 caches pre-pitched and time-delayed content in memory before storing on disks, thereby reducing the ingest-to-plaintext latency and maximizing ingest performance.

Integrated solution – The MDS 500 complements SeaChange's other widely-deployed video servers. The MDS 500 can be deployed as a standalone system, or as a storage library for existing systems. When deployed in conjunction with SeaChange's FMS (Flash Memory Streamers) to scale streams, the MDS 500 provides the ideal storage platform for FMS' solid state streaming, thereby completely separating storage from streaming.



Product Specifications

STREAMING NODE CONFIGURATION

- 2U rack-mountable PCI Express streaming server
- Requires Vstrm 6.02 (or later)
- 500 SD MPEG-2 streams
- 12 1TB SATA drives
- 5,000 hours of SD MPEG-2 content w/ trick speeds
- Connects to additional storage expansion arrays (maximum 2 x 12 drive arrays)
- Power supplies:
 - Redundant 850W maximum for server
 - 110 or 220 VAC
- Operating temperature: 10°C to 35°C (50°F to 95°F)
- Dimensions: 3.5"H x 17"W x 28"D
- Regulatory certifications: FCC class A, CE, CB, Safety 60950-1

STORAGE EXPANSION ARRAY OPTION*

- 2U rack-mountable chassis
- SAS connection to the streaming node
- 12 1TB SATA disk drives
- 5,000 hours of SD MPEG-2 content with trick speeds
- Power supplies:
 - Redundant 460W maximum
 - 110 or 220 VAC
- Operating temperature: 10°C to 35°C (50°F to 95°F)
- Dimensions: 3.5"H x 17"W x 21.5"D

* Contact Product Management for availability

CLUSTER SPECIFICATION

- Single node or clusters of 3 to 8 nodes
- 500 to 4,000 SD MPEG-2 streams
- 5,000 to 35,000 hours of SD MPEG-2 content with trick speeds
- RAID² fault resiliency, automatic load balancing, and online expansion
- Redundant InfiniBand cluster interconnect

SOFTWARE

- Supports SeaChange Axiom® On Demand v3.5 (or later)
- MPEG-2 SD and HD; H.264 SD and HD
- Support for SeaChange's patented smooth splicing technology for dynamic ad insertion
- Clear and pre-encrypted content
- Cluster Management GUI and command line interface
- System snapshot for upgrades, server replacements, and cluster expansions
- SNMP and alarms package



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