

SeaChange® MediaServer MDS 1500

QuickSpec

High Density Streaming, Clustered Memory Ingest and Scalable Storage for Video on Demand, Time-Shifted TV, and RS-DVR

Combining the advantages of standards-based hardware with SeaChange's patented MediaCluster® technology, the SeaChange MediaServer MDS 1500 enables a new level of cost performance for advanced video services. With high-density streaming, clustered memory ingest, and scalable storage, the MDS 1500 is designed to meet the varying demands of video-on-demand usage patterns, as well as emerging applications such as time-shifted TV and RS-DVR.

BENEFITS

Highly reliable – SeaChange's patented and widely deployed MediaCluster® technology provides the foundation for the MDS 1500. 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.

High density streaming – Combining the latest generation Intel® technology and SAS disk streaming, the MDS 1500 delivers the industry's highest density streaming at 5.625Gbps (1500 SD MPEG2 streams) per server node.

Clustered memory ingest – The MDS 1500 caches pre-pitched and time-delayed content in clustered memory before storing on disks, thereby reducing the ingest-to-plaintext latency and maximizing ingest performance.

Scalable storage – The MDS 1500 comes with SAS (Serial Attached SCSI) storage expansion chassis. The combination of RAID2 and enterprise-class, high-performance SAS disk drives provides far greater performance and streaming density than alternative SATA (Serial ATA) solutions. These MDS options address the ever increasing storage requirements of VOD and RS-DVR and provide disk streaming bandwidth for the "long tail" content.

Integrated solution – The MediaServer MDS 1500 complements SeaChange's widely-deployed disk-based video servers. With independently scalable streaming, memory and storage, the MDS 1500 can be deployed as a standalone system, or a streaming booster for existing systems. When deployed in conjunction with SeaChange® Axiom® On Demand v3.5.3 and Axiom v5.0 software releases, the MDS 1500 provides the ideal platform for comprehensive on-demand services.



Product Specifications

STREAMING NODE CONFIGURATION

- 2U rack-mountable chassis server and two 2RU rack-mountable storage chassis (total 6RU)
- 1,500 SD MPEG-2 streams (six GigE streaming ports)
- 24 300GB SAS disk drives
- 3,000 hours of SD MPEG-2 content with trick speeds
- PCI Express streaming server
- 16GB memory in streaming server
- Power:
 - Redundant 500W supplies for server
 - Redundant 460W supplies for each storage chassis
 - 110 or 220 VAC or -48v DC
 - Maximum power draw (startup)
 - server: 350W
 - storage expansion: 400W/chassis
 - Normal power draw (operating)
 - server: 350W
 - storage expansion: 320W/chassis
- Operating temperature: 10°C (50°F) to 35°C (95°F)
- Dimensions:
 - Server: 3.5"H x 17"W x 26.5"D
 - Storage expansion: 3.4"H x 17.3"W x 21.5"D/chassis
- Regulatory certifications: FCC class A, CE, CB, Safety 60950-1

CLUSTER SPECIFICATION

- Single node or clusters of 3 to 5 nodes
- 1,500 to 7,500 SD MPEG-2 streams
- 3,000 to 12,000 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 v3.5.3 and Axiom v5.0 software releases
- MPEG-2 SD and HD; H.264 SD and HD
- Smooth splicing 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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