

## SeaChange® MDS 500

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.

**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 RAID<sup>2</sup>® (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 (22,000 hours of MPEG-2 SD content per 6-node cluster) in the industry. The combination of RAID<sup>2</sup> and enterprise-class 1TB SATA disk drives provides the most reliable, compact, and scalable library storage with the fewest spinning disks.



**Clustered memory ingest** – The MDS 500 caches pre-pitched and time-delayed content in memory before storing on disks, thereby reducing the ingest-to-playout 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’s solid state streaming, thereby completely separating storage from streaming.

### Graphics Features

- 2RU rack-mountable PCI Express streaming server
- Requires Vstrm 6.0.2 (or later)
- 500 SD MPEG-2 streams
- 12 1TB SATA drives
- 5,000 hours of SD MPEG-2 content with trick speeds

## Product Specification

### STREAMING NODE CONFIGURATION

- 2RU rack-mountable PCI Express streaming server
- Requires Vstrm 6.0.2 (or later)
- 500 SD MPEG-2 streams
- 12 1TB SATA drives
- 5,000 hours of SD MPEG-2 content with trick speeds
- Power Requirements:
  - 110/220 VAC @ 50/60 Hz, autoranging from 90-264 VAC
  - Maximum power draw (startup) 560W
  - Normal power draw (operating) 480W

#### Thermal Requirements:

- Average thermal dissipation 1650 BTU/hr.
- Operating temperature: 10°C to 30°C (50°F to 86°F)
- Humidity: 20% to 80% relative humidity, non-condensing
- Altitude: 3,000 meters maximum
- Dimensions: 3.5"H x 17"W x 28"D
- Weight: 65 lbs
- Regulatory certifications:
  - FCC CFR 47 Part 15 A
  - EN55022
  - AS/NZ3548
  - VCCI
  - CE European Low Voltage Directives
  - CB Scheme
  - Safety ETL/Intertek (US U/L 60950-1 and Canada U/L 60950-1 Standards)

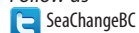
### Cluster Specifications

- Single node or clusters of 3 to 6 nodes
- 500 to 3,000 SD MPEG-2 streams
- 5,000 to 22,000 hours of SD MPEG-2 content with trick speeds
- RAID<sup>2</sup> 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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