

SeaChange® Broadcast MediaLibrary 12000ex

QuickSpec

High-Performance, Fault-Resilient Digital Media Library
Full HD with MediaClient Codecs



The SeaChange Broadcast MediaLibrary 12000ex (BML) is a high-performance, fault-resilient digital media library that can scale from a single, 10TB node up to a 6-node cluster providing over 50TB of capacity. Each node in a cluster is equipped with 2 GigE IP accelerator cards.

The BML 12000ex is designed for media companies who need a scalable, reliable disk-based central media asset library and combined with SeaChange MediaClient for ingest or playout of broadcast-quality channels, or for media companies who will implement tapeless workflows where assets can be accessed and exchanged with best of breed production systems.

Unlike alternate approaches to disk-based asset storage requiring mirrored storage and complicated file synchronization and sharing schemes, the BML 12000ex provides the cost-effectiveness, single-file efficiency, management simplicity, in-service maintenance and upgrades, and superior fault-tolerance of the clustered RAID²® (RAID squared) approach.

FEATURES

Each BML 12000ex node includes an array of (12) 1TB SAS disk drives. Each node also includes 2 network accelerator cards with Gigabit Ethernet I/O to support CIFS and FTP access to each media file stored.

The BML 12000ex can scale from a single-node system to up to 6 nodes. At full capacity, a cluster of 6 nodes puts 72 discs online for over 50TB of RAID² protected storage. When a system is used in a stand alone configuration, media assets are RAID 5 protected.

MediaCluster[®] technology and RAID² storage protection provide the highest levels of fault resilience for the BML 12000ex. When 3 nodes up to 6 nodes maximum are combined into a MediaCluster, RAID² storage protection for stored assets permits continued operation even when an entire node is offline. This not only protects ongoing operations from system failures but also permits in-service maintenance, hot swapping of drives, system upgrades and the installation of additional base nodes.

SeaChange MediaLibrary products are network-attached digital media libraries that provide the industry's highest level of fault-tolerance and are available in combinations of storage

and I/O capacity to span the needs of the broadcast and content origination segments. Media file transfer is based upon Gigabit Ethernet technology, TCP/IP and CIFS protocols for fast, interoperable asset sharing schemes.

All MediaLibrary products use RAID² technology to provide inherent protection against storage and server failures. This approach eliminates the need for costly, inefficient mirrored storage arrays, duplicate file copies, redundant servers and expensive Fibre Channel hardware and licenses.

The MediaLibrary family includes 3 models: BML 12000ex and BML 24000ex for online Transmission storage clusters, and the newest UML 7200 for a versatile Media Network Storage. BMLex starts with single node configuration and can scale to multi-node clusters with in-service upgrades and maintenance and permits capacity to be expanded without interrupting operations.

MediaLibrary products provide guaranteed I/O bandwidth via TCP/IP-compliant Gigabit Ethernet ports. It supports a variety of standard file sharing protocols such as CIFS and FTP. This capability enables these products to satisfy real-time broadcast I/O requirements and to seamlessly connect to SeaChange MediaClient codecs and best of breed content preparation and asset browsing tools.

MediaLibrary products are designed for broadcasters and content providers who want to replace discrete islands of disk or tape-based storage with a central media library that offers the performance of disk at a price approaching that of near-line storage.



Product Specifications

CLUSTERED CONFIGURATION

- From 3 to 6 nodes*
- RAID² fault resilience
- 3.2 GHz CPU with 2 onboard GigE NICs per node
- 2 network accelerator cards per node, each with 1 GigE Copper interface port
- Redundant switched InfiniBand interconnect per cluster
- SSD Service disk

SINGLE NODE CONFIGURATION

- 1 node
- RAID 5 fault resilience
- 3.2 GHz CPU with 2 onboard GigE NICs
- 2 network accelerator cards per node, each with 1 GigE Copper interface port

CHASSIS SPECIFICATIONS

- 2RU chassis with CPU and 12-drive disk array
- 1 TB SAS drives hot swappable
- Network Connections: RJ-45 @ 10/100/1000 Ethernet (autosensing)
- Power supplies:
 - Redundant 460W maximum
 - 110 or 220 VAC
- Dimensions: 3.5" H x 17.32" W x 28.16" D
- Weight: 65 lbs
- Certification: UL 60950 - CSA 60950, FCC Class A, CE
- Environmental conditions
 - Operating temperature: 10°C to 35°C (50°F to 95°F)

CAPABILITIES

- Jumbo frame support for optimal bandwidth.
- SeaChange MediaClient channel capacity:
 - The BML 12000ex supports both SD and HD MediaClient channels.
 - Please consult a SeaChange representative for details on supported channel bitrates and density.

** 6 nodes is the maximum cluster size*



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