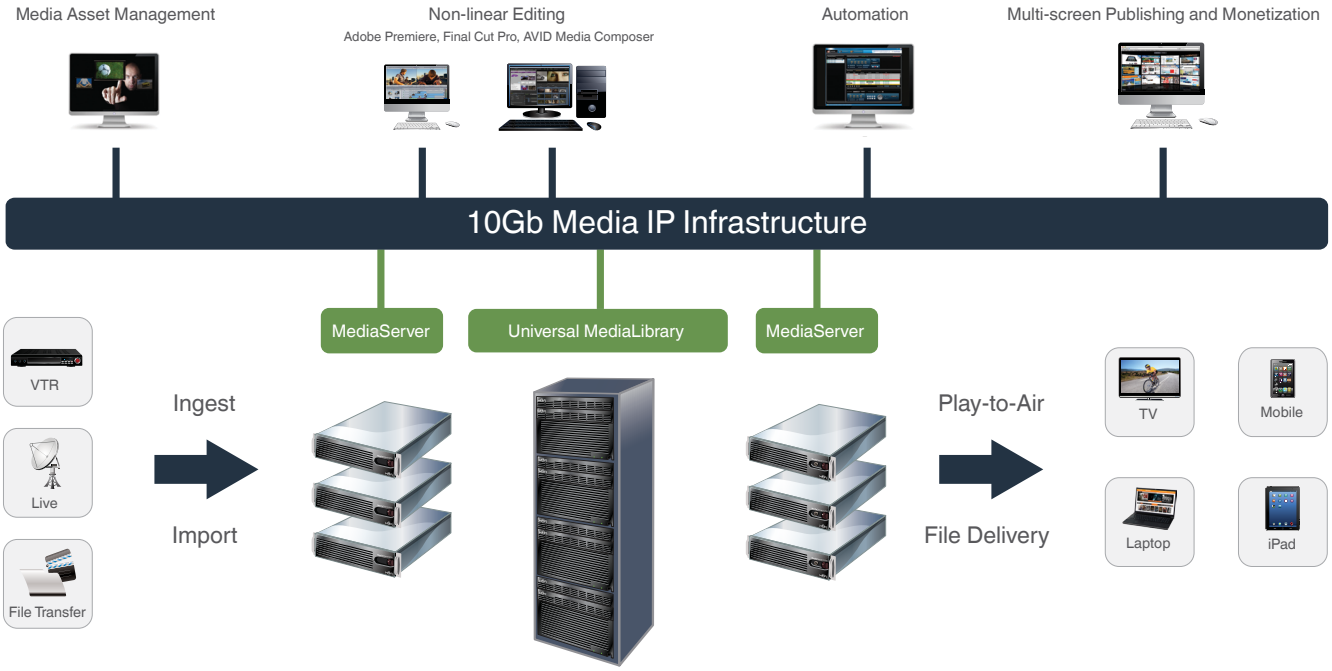
Broadcast Solutions

For almost two decades years now, XOR Media, formerly the broadcast group of SeaChange, has served an agent of transformation in the field of broadcast television. It started when broadcasters replaced their tape-based playout with a revolutionary multiple-channel MediaCluster system with high reliability and MPEG2 compression. Then still known as SeaChange Broadcast, the group, launched its Broadcast MediaLibrary and MediaClient systems to drive the evolution of video-based broadcasting towards tapeless workflows.

Today, XOR Media institutes its next-generation storage system called the Universal MediaLibrary that encompasses the new challenges of reliability in linear channels playout and in content streaming to consumers anywhere.



TV viewers around the world demand for television anytime, anywhere - on mobile, the internet, and television sets. Broadcasting companies are then obliged to migrate from their existing infrastructure to the latest and most sought-after technology. The top responders to these new demands are gearing towards simplified and efficient workflows and manageable media streaming.

Following the market trends, transition to high definition and 3D broadcasting are the most active developments believed to continue in the next ten years. Other pressing requirements are support for H.264 and other formats, content protection, as well as the demand for larger content library and smart content delivery network.

With the involvement of broadcasters and content providers into streaming media, it is evident that everyone wants to distribute HD content to mobile devices and the internet. Thus, despite the challenge of the transition to higher-end IP infrastructure, media companies must comply with the rapidly changing trends of the industry.

XOR Media does not cease to revolutionize the industry by delivering innovative solutions. Having served hundreds of customers and managed thousands of channels worldwide, its dedication to innovate and develop exceptional technologies continues with its lineup of broadcast servers and storage.

Universal MediaLibrary (UML)
The Universal MediaLibrary is central to the entire XOR media architecture. It provides the solution that features simultaneous NAS and SAN access. Files on the UML can be accessed via Fibre Channel, iSCSI, CIFS, NFS, and FTP without needing to reconfigure the system or set up gateways. Being able to support both NAS and SAN in a single file system means that a company doesn't need to set up islands of storage systems for equipment requiring different types of connections. All media assets may be managed and accessed in a single global namespace.

The UML is unique in being able to support real-time play-to-air, high-performance production, and media factory applications, giving operators the ability to maximize the value of their storage investment and at the same time simplify their workflow.

The UML accommodates 16TB to 216TB in a single node and can scale up to 64ZB by adding nodes to the cluster, all in a single global namespace. The UML delivers up to 17Gbps throughput per node, which scales along with its capacity.

MediaServer
The XOR MediaServer C is a broadcast-quality video server that offers multi-resolution and multi-format operations, making it ideal for channel expansion, TV broadcast, content production, and even live entertainment and sports applications.

The MediaServer C offers flexible storage portfolios with either built-in HDD storage of 8TB or 16TB, or stream-through with XOR Universal MediaLibrary, or both.

The MediaServer C supports open media format for MOV and MXF files for SD, HD, and even 3D. It provides software codec configuration for open-standard MXF interoperability — making it extremely flexible and future-proof. With the MediaServer C, broadcasters can choose both their preferred automation system and media asset manager, including the XOR MediaController application. The MediaServer C is uniquely scalable starting with 4 inputs and outputs channels, and can expand easily to 8 inputs and 8 outputs channels, facilitating higher channel density and lower cost.

The MediaServer C supports standard definition as well as 1080i and 720p high definition. It can easily be configured as SD only or SD/HD switchable supporting all the standard broadcast formats. Input/output signals are SMPTE 259M or SMPTE 292M-compliant and support up to eight embedded AES pairs and various modes for VBI and ANC. Both linear and vertical interval time codes are supported.

The built-in storage of MediaServer C are on top of the RAID 6 dual parity data protection to ensure uninterrupted operations even in the unlikely event of a two-drive failure. All drives are field-replaceable and hot-swappable, taking this machine's reliability up another notch.

About XOR Media

XOR Media develops high-performance, open, IT storage, specialized for media applications and private cloud data centers. Formerly SeaChange Broadcast, XOR Media offers a product line that includes open, cloud-capable, and media-optimized technologies used by hundreds of broadcasters and content providers around the world: ingest and playout codecs MediaClient and MediaServer; and the prizewinning, clustered and scalable Universal MediaLibrary storage. XOR Media operates globally with over 200 employees and manages 15,000 channels on air. www.xor- media.com.

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