Omneon Spectrum™ HD Media Server

As demand for high definition television increases, broadcasters are increasingly looking for cost-effective and flexible approaches to HD ingest, production and playout. In addition to format, bit rate, and resolution choices to consider, broadcasters must also leverage their technology purchases to best balance between their existing equipment and their long-term HD strategy. Omneon's combined broadcast know-how and IT expertise delivers media servers meeting these demanding requirements. The Omneon Spectrum media servers provide support for all major HD formats as well as adapt and scale to meet the evolving HD landscape.

FULL-FEATURED HD MEDIA SERVER

The new Omneon Spectrum HD media server combines high-quality HD playout capability with flexible features to allow facilities to efficiently migrate to HD broadcasting. HD MultiPort playout modules can support one or two channels of HD MPEG playout of 4:2:0 or 4:2:2 material at bitrates up to 78 Megabits per second, beyond that of any other media server available today. The Omneon Spectrum HD also integrates with today's high-quality encoders which may already be deployed in your playout center. The Omneon HD Spectrum handles DVB/ASI streams, allowing network feeds to be ingested directly into the media server for playout.

The Smart Scalability™ of all Omneon Spectrum systems allows you to scale channels, storage, bandwidth and redundancy independently in smart manageable increments. Omneon components integrate seamlessly with your current encoding choices, support your HD strategy and encompass your SD requirements to grow along with your facility.

THE OMNEON SPECTRUN HD MEDIA SERVER

INGEST: The Omneon Spectrum HD integrates HD MPEG ingest with MPEG transport stream demux in a single device. The MediaPort 4010 ingest module can de-multiplex a transport stream into independent video and audio elementary streams and maintain frame-accurate synchronization. It simplifies ingest workflow by eliminating the need for offline processing of MPEG transport streams and enables direct connect to backhaul distribution over DVB/ASI.

STORAGE: The Omneon Spectrum HD comes with a storage array that holds up to 45 hours of HD MPEG at 19Mb/s. The software RAID controller in the Omneon Spectrum provides fully protected, reliable storage scalability. Additional storage arrays can be easily added to expand system capacity.

PLAYOUT: The output module of the Omneon Spectrum HD provides dual independent HD MPEG output channels each with 16 channels of embedded audio. It supports the broadest range of MPEG bit rates - 19Mbps to 78Mbps and can frame accurately switch between 4:2:2 or 4:2:0 material.

⋮> BENEFITS

Price/Performance

Get unmatched price/performance in a full-featured HD media server without sacrificing flexibility, scalability and reliability. The Omneon Spectrum HD delivers support for a wide range of bit rates and chroma sampling. And at a price that makes it easy to get into server-based HD.

Complete

The Omneon Spectrum HD is a complete HD ingest and playout server in one low-cost integrated platform. It can store from 45 Hours of content and scale up to storing hundreds of hours of content.*
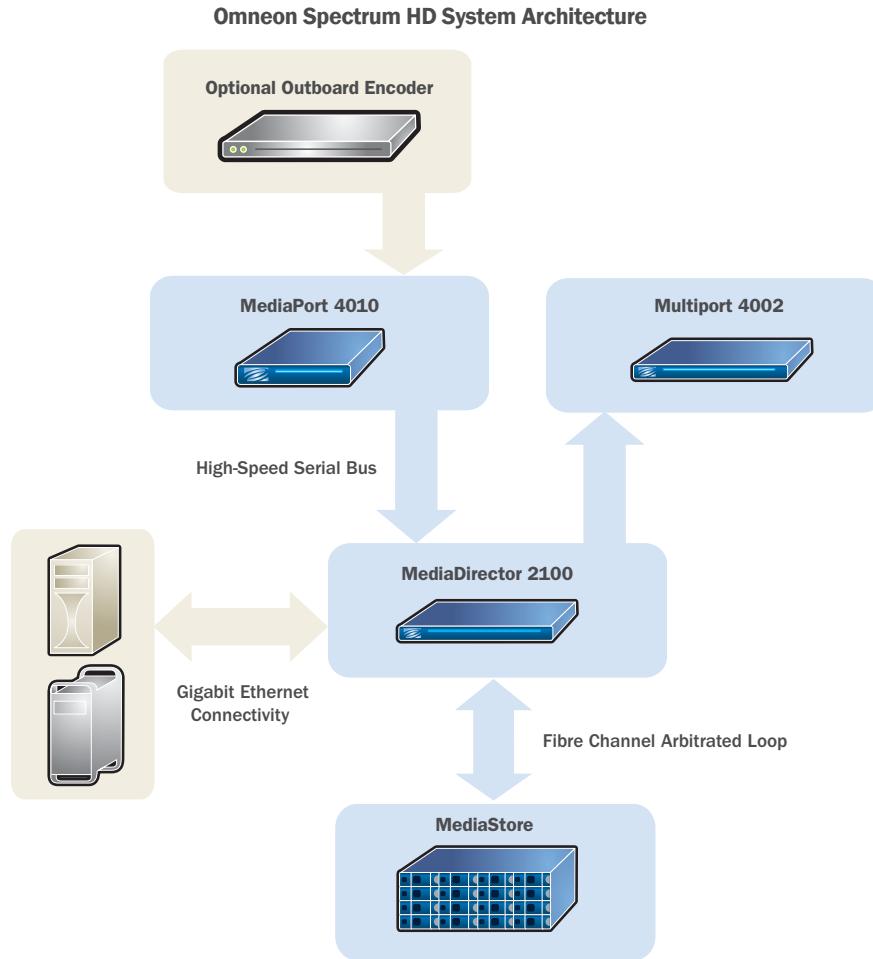
Flexible

The Omneon Spectrum HD is based on proven Omneon components, and scales from the original configuration without sacrificing any of your investment in storage, I/O or bandwidth.

*Capacity based on minimum supported bit rate of 19Mbps. Content stored at higher bit rates will reduce the amount of arrays that can be added at any time to increase total capacity.

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Omneon Spectrum HD

Omneon Spectrum HD System Architecture

Optional Outboard Encoder

MediaPort 4010

Multiport 4002

High-Speed Serial Bus

MediaDirector 2100

Gigabit Ethernet
Connectivity

Fibre Channel Arbitrated Loop

MediaStore

The key to the Omneon Spectrum is its unique modular design utilizing industry standard connectivity to create a highly configurable and reliable system. Multiple MediaStore storage units can be linked in a single installation to provide redundancy, scalable storage capacity, and increased media bandwidth. New components can be added quickly and easily, and in many cases, without taking the system offline.

To be kept up to date with all the latest Omneon developments, sign up for our newsletter at www.omneon.com/update-me.

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