

HIGHLIGHTS

- Ingests transcoded, segmented and encrypted output from ProMedia Package, ProMedia Carbon and ProMedia Xpress
- Enables progressive download or adaptive streaming to downstream caches or CDNs
- External API for asset management and offline content transcoding workflow, integrated with external content management systems
- Cost-effective scalability of throughput and storage capacity through integration with Harmonic MediaGrid network-attached storage
- Centralized management with Harmonic NMX Digital Service Manager

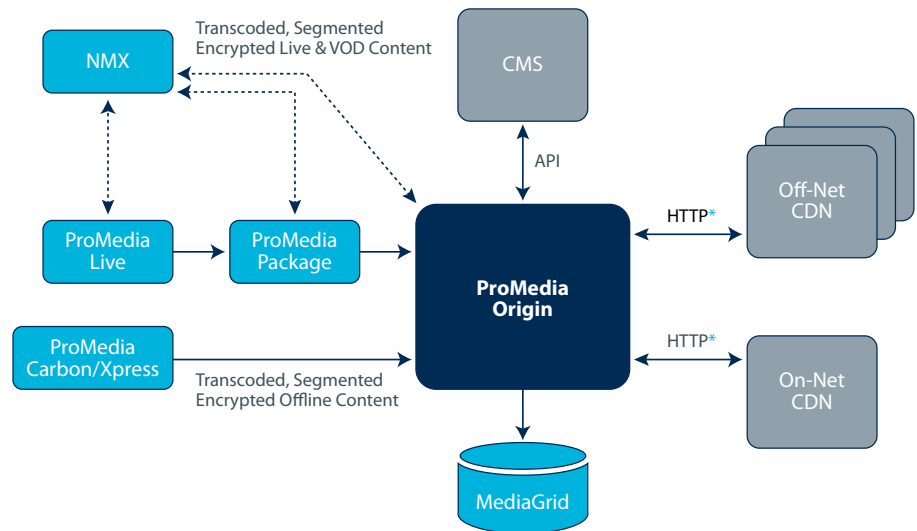
ProMedia™ Origin is an HTTP streaming video server ideal for originating a broad range of multiscreen services on a scalable, manageable, enterprise-class platform. Leveraging industry-standard protocols from Adobe, Apple and Microsoft, the software-based application enables high-volume live adaptive bitrate streaming and the delivery of time-shifted services such as catch-up TV, start-over TV and network DVR to connected devices.

ProMedia Origin is part of the ProMedia family of video preparation and processing solutions for production and multiscreen workflows. It supports the most popular adaptive streaming standards, and provides a unified storage and delivery platform for video content targeted to multiple off-net and on-net devices, including over-the-top (OTT) set-top boxes, connected TVs, smartphones and tablets. The application can be used as a stand-alone streaming server, or it can be bundled with the ProMedia Package multiscreen stream packager to minimize rack space, simplify the workflow, and maximize an operator's cost savings.

Scalability is a key feature of ProMedia Origin. For the deployment of time-shifted OTT television services, the application is optimized to work with the Harmonic MediaGrid shared storage system. Both ProMedia Origin and MediaGrid scale independently, so operators can add more Origin servers as their network grows, and more MediaGrid storage as their content library grows.

Integrating with upstream transcoders and downstream CDNs, the carrier-grade ProMedia Origin server is the ideal solution for streaming high-value content to multiple screens, today and in the future.

PROMEDIA ORIGIN CONFIGURATION



- ▶ Adaptive streaming support
- ▶ Apple HTTP Live Streaming
- ▶ Adobe Dynamic Streaming
- ▶ Asset management API available for back-office integration
- ▶ Microsoft Smooth Streaming
- ▶ HTTP download of file-based content

* Interface protocols with cache/CDNs ** MediaGrid Storage is optional



APPLICATIONS

- Live streaming
- VOD
- Catch-up TV
- Start-over TV
- nPVR

BUSINESS AND TECHNICAL BENEFITS

Reduced Time to Market

ProMedia Origin is a multi-protocol, appliance-based streaming video server fully integrated with Harmonic ProMedia real-time and file-based transcoding software. It eliminates the need for service providers to build their own origin servers to support different protocols required for multiscreen applications, as well as the complexity involved in dimensioning of the origin servers.

Broad Application Support

ProMedia Origin allows operators to easily deploy a wide range of multiscreen applications beyond live streaming and VOD. More advanced applications, such as catch-up TV, start-over and nPVR, can be added thanks to a flexible API available for external systems to manage the complete asset lifecycle.

Centralized Management

The variety of equipment required to support multiple formats, protocols and stages in content preparation can introduce workflow complexity if not easily integrated and managed. The Harmonic NMX™ Digital Service Manager can centrally provision, monitor and control ProMedia Origin, as well as other ProMedia applications, simplifying deployment and ongoing management of multiscreen services.

Cost-Effective Scalability

ProMedia Origin scales to support live streaming in a 1+1 redundant origin server configuration. High throughput is enabled with the addition of external MediaGrid network-attached storage that supports up to 10 PB.

FEATURE SUMMARY

Feature	Description
Services	Live streaming, VOD, catch-up TV, start-over TV, nPVR
Input Protocols	Adobe® HTTP Dynamic Streaming, Apple® HTTP Live Streaming, Microsoft® Smooth Streaming, HTTP Progressive Download, MPEG-DASH
Output Protocol	HTTP 1.1 support
Upstream Content Source	ProMedia Package, ProMedia Carbon, ProMedia Xpress
Downstream Delivery	Third-party CDNs
Management	NMX Digital Service Manager
Storage Integration	Direct attached storage with limit of 6 TB, or larger storage with Harmonic MediaGrid

PROMEDIA APPLICATION SERVER

ProMedia Origin is available as software or loaded on the ProMedia 2100 application server. When purchased as a software package, the customer can install the ProMedia Origin software onto any hardware that meets the minimum requirements. When purchased as an appliance, ProMedia Origin will arrive as an integrated platform that is ready to use with simple configuration.



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