

ProMedia Package

MULTISCREEN STREAM PACKAGER



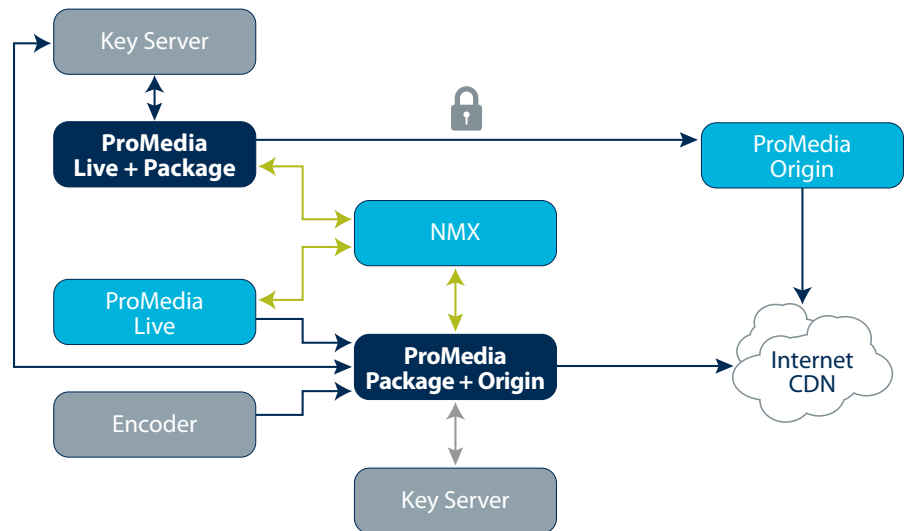
Harmonic's ProMedia™ Package is a carrier-grade adaptive stream preparation system for scalable, secure, high-value Internet video services. This multiscreen packager allows multiple streams of H.264 video and associated audio to be combined selectively into any of the most popular HTTP adaptive bitrate protocols, enabling the deployment of high-quality SD and HD services for all popular mobile and web devices.

Entirely software-based, ProMedia Package is part of the ProMedia family of video preparation and processing solutions for production and multiscreen applications, including real-time and file-based transcoding, packaging and origination. It can be controlled and managed with the Harmonic NMX™ Digital Service Manager network management system or a web-based GUI, and can scale to support hundreds of simultaneous streams. Metadata information—such as language, captions, ad insertion and teletext—is stored on input so that it can be automatically embedded on output. Encryption is made simple thanks to integration with multiple digital rights management (DRM) vendors.

ProMedia Package is available as a stand-alone application, or as a bundle with either the ProMedia Live real-time transcoder or ProMedia Origin streaming video server.

HIGHLIGHTS

- Encode once and encapsulate to a variety of target ecosystems
- Supports Apple HLS, Microsoft Smooth Streaming, Adobe RTMP and HDS, and MPEG-DASH adaptive bitrate streaming protocols
- Open Key Management Server (KMS) interface enables simplified integration with multiple DRM vendors
- Carrier-grade management system with NMX Digital Service Manager monitoring and control, and N+M redundancy
- Integration with multiple CDNs
- Wide range of client integration
- Available on optimized hardware application server
- Seamlessly integrates with ProMedia Live and ProMedia Origin



INPUT

ProMedia Package accepts transport streams over UDP containing H.264 video with key frame alignment, with up to 10 different videos and eight different audio languages per service.

OUTPUT

ProMedia Package supports the following output formats:

- Apple® HTTP Live Streaming (HLS)
- Microsoft® Smooth Streaming
- Adobe® RTMP and HTTP Dynamic Streaming (HDS)
- MPEG-DASH

BUSINESS AND TECHNICAL BENEFITS

Flexibility

ProMedia Package supports all major streaming protocol standards in use today and offers the flexibility to package to different formats from a single H.264 source.

Ecosystem Integration

The ProMedia suite integrates with numerous DRM vendors and media asset management systems. An open Key Management System simplifies DRM integration, and deployment time is shortened through integration with leading content distribution networks (CDNs).

Scalability & Performance

In addition to supporting a broad variety of formats, multiple ProMedia Package systems can be combined for high channel deployments to supports hundreds of simultaneous streams.

Centralized Management

NMX Digital Service Manager can centrally manage, provision and control various elements of the ProMedia suite, including ProMedia Package, enhancing scalability while simplifying deployment and management of multiscreen services.

FEATURE SUMMARY

INPUTS						
Video	H.264 up to 10 profiles per channel, key frame alignment is required					
Audio	MPEG-1 Layer II, AAC-LC, HE-AAC v1/v2, and Dolby® (AC-3), up to eight languages per channel					
IP CONNECTIVITY						
Redundancy	IP input source redundancy, N:M unit redundancy, publishing server redundancy					
PROCESSING FEATURES						
Ad insertion	SCTE-35 pass through / conversion to timed text					
Video, audio, data selection	Exclusion of video, audio and data services available per packaging technology					
Subtitle and closed caption support	CEA 608 and CEA 708					
Untimed data pass through	EBIF, DSM-CC, etc. data may be passed though					
OUTPUT						
Type	Publishing technologies options	Number of publishing points / service	Redundancy / publish point	Encryption	Captions	Ads
Apple HLS	FTP, HTTP Post, WebDAV	5	Active:Active Active:Standby	AES	CEA 608	SCTE-35
Microsoft Smooth	HTTP Post (IIS encoder publishing interface)	5	Active:Active Active:Standby	AES	SMPTE TT from CEA 608	XML in Timed Text
Adobe RTMP	Adobe RTMP	5	Active:Active Active:Standby	None	None	None

PROMEDIA APPLICATION SERVER

ProMedia Package is available as software or loaded on a hardware application server. When purchased as a software package, the customer can install the ProMedia Package software onto the customer's hardware of choice that fulfills the hardware requirement. When purchased as an appliance,

ProMedia Package will arrive as an integrated platform that is ready to use with simple configuration. For the appliance specification, please refer to the ProMedia 1200 application server technical specification document.

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