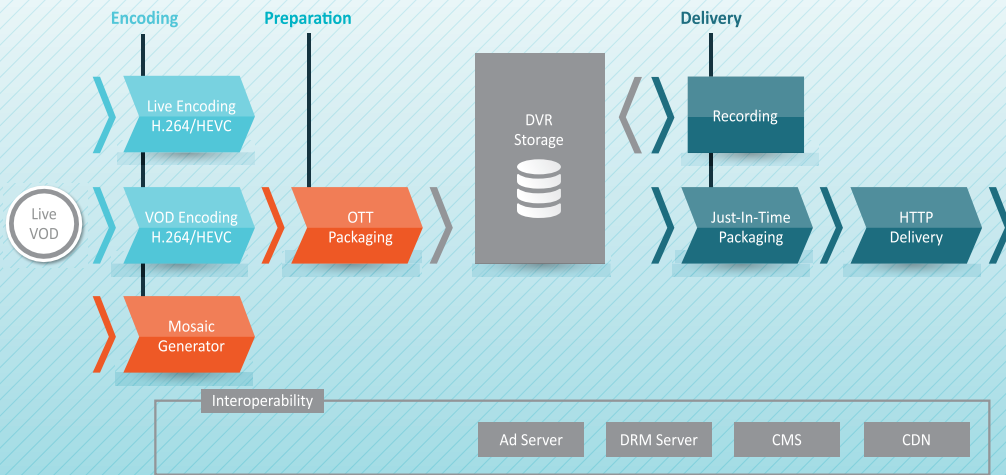


GENOVA MOSAIC

Live Mosaic Generator

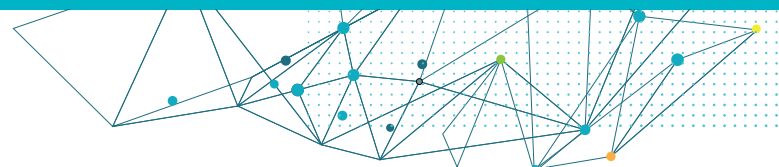
- Turn-key software for OTT TV & IPTV
- Live Mosaic generation and Packaging
- Ingests up to 20 HD or 64 SD inputs
- Encodes to H.264 and H.265/HEVC, up to 4K
- Support for multiple output pages
- Virtualizable (OpenStack, VMWare)
- Future-proof, upgradable software
- “Pay as you grow” licensing



SOFTWARE PRODUCTS

GENOVA LIVE
GENOVA FILE
GENOVA ORIGIN
GENOVA MOSAIC

Live H.264 & HEVC transcoder for OTT TV
File-based H.264 & HEVC transcoder for VOD
Catch-up TV, nPVR, Start-Over, High performance HTTP delivery
Live Mosaic Generator for OTT TV & IPTV





GENOVA MOSAIC



OTT TV / IPTV / LIVE / FILE / CATCH-UP

Live Mosaic generator

Genova Mosaic is a virtualizable software designed for generating a mosaic channel from live TV services for IPTV or OTT TV. Its modular architecture makes it suitable for encoding on a single server, or a private cloud such as OpenStack. It can be remotely managed and monitored and integrates well within existing content processing workflows.

INPUT

Video	MPEG-2, up to HD H.264, up to HD
Audio	MPEG-1 Layer II, AAC-LC, HE-AAC v1/v2, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3)
Transport	Live MPEG-TS / IP in UDP Video clips (TS) Static pictures (JPG, PNG, BMP)

OUTPUT

Video Preprocessing	Adaptive de-interlacing Video resize Aspect-ratio conversion or pass-through	Frame rate down-conversion Color enhancement
Video Compositing	User configurable compositor Up to 20 HD / 64 SD video feeds Dynamic 2.0 and 5.1 audio bargraphs	Different thumbnail sizes in the same scene Configurable thumbnail positions Configurable background picture
Video Encoding	H.264, up to HD H.265/HEVC, up to 4K	Multi-bitrate video encoding for Adaptive Streaming CBR, VBR, ABR Up to 16 video profiles per service
Audio Preprocessing	Automatic Gain Control Audio level	5.1 and stereo downmix Audio resampling
Audio Encoding	AAC-LC, HE-AAC v1/v2, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3) Up to 64 audio streams	
Monitoring & Alarms	Audio silence, Audio peaks Video freeze, Video black Missing audio PID, Missing video PID	Automatic thumbnails labelling from PSI Remote live preview of mosaic output DVB-Subtitle burn-in
Packaging	SPTS in UDP or RTP/UDP with FEC Apple HLS MPEG-DASH (ISO BMFF) Adobe RTMP	Adobe HDS Microsoft Live Smooth Streaming RTP / RTCP Keepixo Mezzanine
Performance	Up to 20 HD / 64 SD input feeds Up to 4 mosaic pages per unit	Round-robin channels cycling Up to 128 sources per thumbnail

OPERATION & MANAGEMENT

Web GUI HTTP RESTful API SNMP monitoring DataMiner supervision	Easy integration with any STB middleware Easily upgradable N+P redundancy Runs on Intel based platforms
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Virtualizable in public or private clouds: Amazon EC2, Microsoft Azure, VMWare Workstation, OpenStack/KVM



Keepixo is a leading provider of software-based head-end solutions for IPTV & OTT. It offers live and file video encoders, and delivery solutions to provide advanced functions such as Catch-Up, Start-Over and nPVR. Using its cloud-ready software solutions, Keepixo can combine the best of performance, flexibility and scalability giving its customers tailored solutions. For more information, visit Keepixo's website or contact us at info@keepixo.com. www.keepixo.com

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