

# APPEAR SOFTWARE PORTFOLIO LIVE OTT TRANSCODING



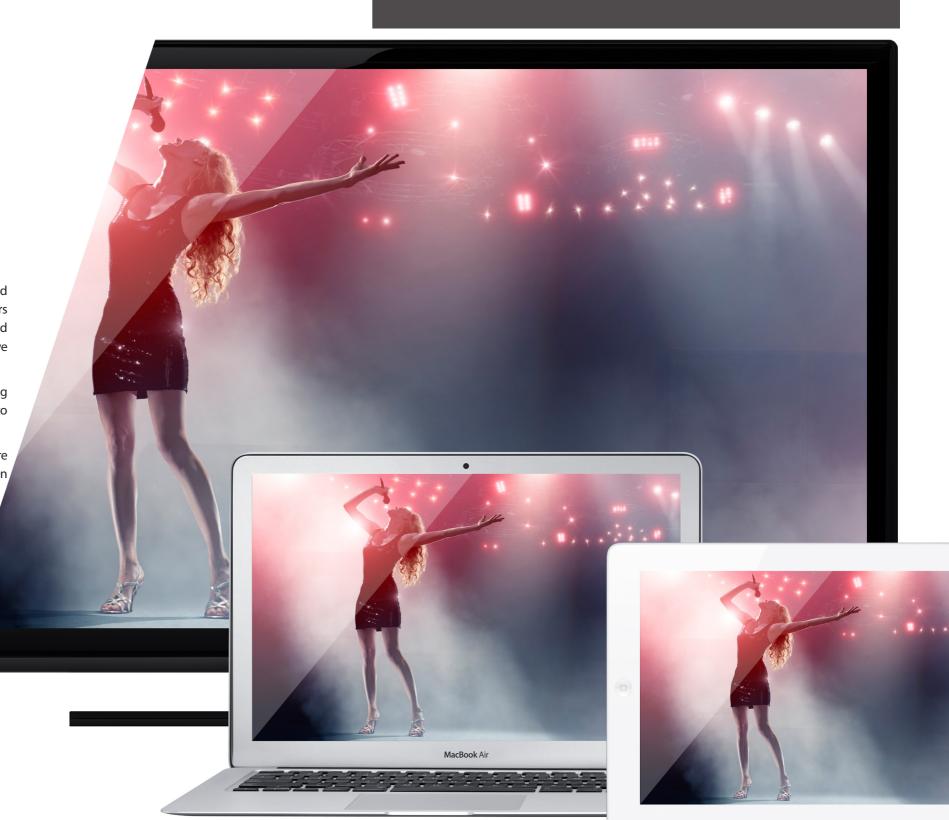
Traditional TV delivery is no longer enough for broadcasters, customers want access to content everywhere.

## DATACENTER MULTISCREEN COMPRESSION

The availability and capacity of internet is increasing. So too is the prevalence of powerful computers, integrated TVs, tablets and mobile phones. These combined factors allow viewers to receive video content from broadcasters anywhere, in virtually any form. Becoming a commodity, viewers are starting to take it for granted. For content and network infrastructure providers, this same commodity poses more of a challenge: to deliver the best possible live video experience on multiple formats, regardless of distribution networks and viewing devices utilized.

Interest in software transcoding solutions is growing. Operators acknowledge the importance of efficiently utilizing their existing datacenter infrastructure and the know-how already embedded in their organization. Others look to migrate at least parts of their infrastructure onto the cloud.

Live OTT Transcoding is Appear TVs newest OTT product, complementary to our existing and upcoming hardware product portfolio. The Live OTT Transcoder enables broadcasters and operators to provide high quality multiscreen services through COTS hardware options.



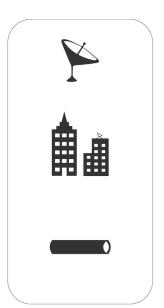


Encoding quality levels can be chosen to achieve different quality vs. speed tradeoffs, making it possible to target a large number of different markets.

## HIGH QUALITY OTT TRANSCODING

High performance H.264 and H.265 encoders make up the core of the Live OTT Transcoder. Services can be transcoded into different H.264 and H.265 profiles, with up to UHD resolutions. Encoding quality levels can be chosen to achieve different quality vs. speed tradeoffs, making it possible to target a large number of different markets. Together with flexible rescaling, deinterlacing, frame-rate conversion and logo-insertion options, all screens become picture perfect.

Transcoded services can be streamed out as key-frame aligned transport streams, to be ingested by the customer's preferred packager, for example, Appear TV's storage and packaging solution Appear Software Portfolio ABR. Alternatively, HLS segments and playlists can be generated directly, ready to be fed into existing CDN infrastructure.









X20/XC5000



# KEY FEATURES

#### OTT

- Efficient resource sharing
- Keyframe alignment between streams, even across multiple servers
- Supports both MPEG transport streams and direct generation of HLS segments and playlists for distribution through CDN providers
- Flexible rescaling, deinterlacing, framerate conversion and logo insertion options

#### High quality H264 and H265 compression

- Supports all common resolutions up to UHD
- Multiple quality presets: High Density, Standard, High Quality
- Dynamic quality control

## High quality audio compression

- Supports all common codecs: MPEG-1 Layer 2, AAC-LC, HE-AAC v1/v2, and Dolby Digital®/Dolby Digital Plus®1
- Audio Channel Modes: Multichannel (up to 7.1), Stereo, Mono

#### **Datacenter ready**

- Efficient configuration for a cluster of servers
- Scalable across multiple CPU architectures
- Easy deployment through Docker® virtualization
- Flexible redundancy options
- Cloud enabled

#### Easy to use UI

- Straightforward management of a single server or an entire server cluster through a central management interface
- Automatic resource allocation
- Template-based configuration system making it easy to setup large number of services

<sup>&</sup>lt;sup>1</sup> To be submitted for certification

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