

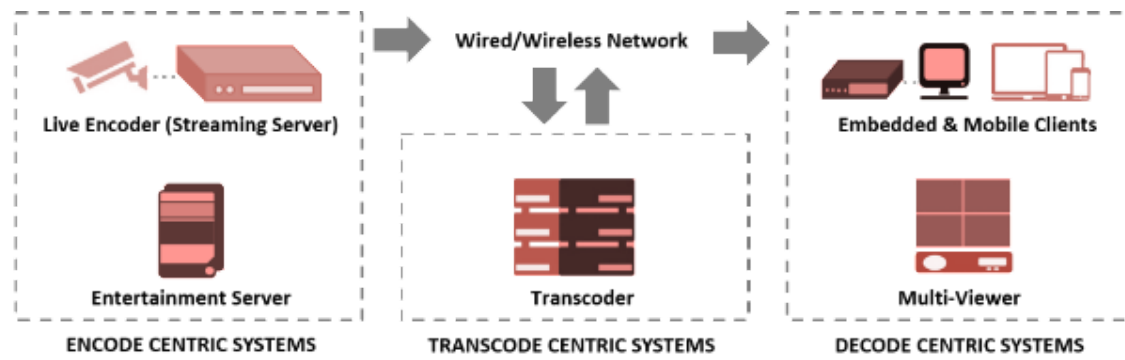


SYSTEM SOLUTIONS FOR BROADCAST APPLICATIONS

Ittiam offers field-proven **Media SDKs** ([adroitSDK](#)) and **Hardware Platforms** ([neonCaster](#)) for realizing high quality broadcast applications such as IPTV Head End Server, OTT Distribution, Live Streaming Encoder, Broadcast Monitoring System, Audio Communication over IP (ACIP) and Multi-Viewer.

- **adroitSDK**: Optimized media pipelines realizing end-to-end media flow for audio, video and metadata.
- **neonCaster**: [Magna](#) (high-performance SoM) & [Clove](#) (low-power SoM) for quick time to market.

adroitSDK integrates Ittiam's standards-compliant MPEG-2 TS Multiplexer/D-Multiplexer, RTP/RTCP Stack and Forward Error Correction (FEC) modules. These are offered separately too as stand-alone modules.



adroitStream (Encoder SDK)

- Full-HD (1080p60) video, Multi-channel audio
 - Audio Video Inputs: 3G-SDI, HDMI
- Streaming: MPEG-2 TS, HLS, DASH, RTP
- Video/Audio: H.264, MPEG-2, AAC, MP1L2, AC3
 - Pre-Processing: Scaling, De-interlacing
 - Compliance: MPEG-2 TS, ISDB-T, DVB

adroitWave (ACIP Encoder/Decoder SDK)

- Audio Inputs/Outputs: Line-In/Out, Buffer APIs
 - Streaming: MPEG-2 TS, RTP
- Formats: MPEG-1 L2, MP3, AAC-LC/LD, HE-AAC v1/v2, G.711, G.722, PCM, E-Aptx
- Error Resilience: Forward Error Correction (FEC)
 - Low Latency: 30 milliseconds end-to-end

adroitXCode (Transcoder SDK)

- Full-HD (1080p60) video, Multichannel audio
 - Single/multi-channel operation
- Streaming: MPEG-2 TS, HLS, DASH, RTP
- Video/Audio: H.264, MPEG-2, AAC, MP1L2, AC3
 - Trans-rating, Trans-scaling, Trans-muxing
 - Streaming over wired/wireless networks

adroitMix (Multi-Viewer SDK)

- Full-HD (up to 1080p60) video
- Decode & mixing of multiple network streams
 - Frame accurate synchronization
 - Video: H.264, MPEG-2
 - Streaming: MPEG-2 TS, RTP
 - Display over 3G-SDI, HDMI

BROADCAST VIDEO CODECS

Ittiam's high-quality **Video Codecs** ([HEVC](#), [VP9](#)) are available on Intel servers, cloud-based deployments and ARM-based CPU/CPU+GPU platforms. These deliver the best compression & performance efficiency, making sure that the benefits of the underlying codec algorithm are translated into real-world products.

[Request an SDK Demo](#)

[HEVC & VP9 Solutions](#)



Ittiam is a member of [Alliance for Open Media \(AOM\)](#) and will collaborate with industry leaders in developing the royalty free AOMedia Video codec, AV1.



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