AOMedia Decoder
Q4 2023 Issue

The Alliance for Open Media had a productive and successful second half of 2023, thanks to our member driven activities. Highlights include a Google and Meta-sponsored AOMedia workshop at ICIP in Kuala Lumpur, various AV1-related sessions at Demuxed, and the announcement of AOMedia's Immersive Audio Model and Formats (IAMF) container specification, the organization's first-ever audio container specification offered under its royalty-free license. Thank you to all our members for their ongoing efforts.

Members Share Updates on the Adoption and Performance of AV1 at ICIP 2023

On October 9th, AOMedia members Meta and Google co-sponsored an AOMedia workshop at ICIP 2023. During the session, they shared status updates on AV1 adoption and performance and discussed progress toward a potential future video coding standard through sets of new coding tools contributed by AOMedia members. The workshop consisted of nine distinct presentations that covered advances in video quality metrics, an overview of coding tools being considered for AOMedia video model (AVM), and beyond. Speakers included:

- Dr. Ioannis Katsavounidis, Meta
- Mr. Hassene Tmar, Meta
- Dr. Ryan Lei, Meta
- Dr. Anush Moorthy, Netflix
- Dr. In Suk Chong, Google
- Dr. Yilin Wang, YouTube/Google

- Dr. Balu Adsumili, YouTube/Google
- Dr. Debargha Mukherjee, Google
- Dr. Yeping Su, Google
- Dr. Xin Zhao, Tencent
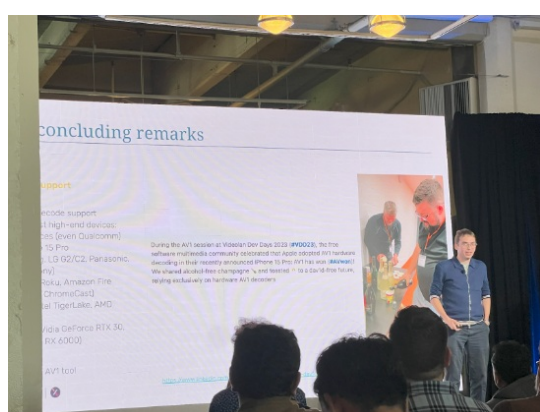- Dr. Onur Guleryuz, Google
- Mr. Joe Young, Google

Recent Session at Demuxed

AV1 got plenty of airtime at this year's Demuxed event, which was held in San Francisco, October 24th-25th. Andrey Norkin of Netflix presented *Notes on AV1 Productization and Royalty-Free Video Codecs Outlook*. He gave an overview of the AV1 codec rollout at Netflix and demonstrated the benefits of using this codec for the delivery of Netflix content in VoD. The talk also offered a glimpse of the research conducted by AOMedia on video compression beyond AV1 and showed the performance of AOMedia video model (AVM) software.

Additionally, Jeremy Doig, global media technology expert, presented *Open and Free: How Web Philosophy Challenged Legacy Media Mindsets - and Won*, in which he spoke about the launch of WebRTC and AOM and gave a history of AV1.

Finally, Ronald S. Bultje of Two Orioles shared a presentation, *Low-level Wizardry in dav1d,* in which he dove into the world of low-level optimizations in dav1d – VideonLAN's software AV1 decoder.

Recent News

On November 9, AOMedia announced the release of the Immersive Audio Model and Formats (IAMF) container specification, the organization's first-ever audio container specification to be offered under AOMedia's royalty-free license. IAMF is designed to enable creatives to revolutionize immersive audio experiences across a myriad of applications, from streaming and gaming to augmented reality and virtual reality, as well as traditional broadcasting.

Read Full Release

AOMedia and AV1 in the News

Check out the latest news and updates:

- Tech Mahindra published a deep dive into the **AV1 codec and its successes** since its launch.
- Insider Gaming highlighted how **AV1 encoding** is bringing the streaming industry to new heights.
- Phoronix **shared the release news of libavif 1.0**, the reference library for the AV1 Image File Format (AVIF) with image encode and decode support.
- Wondershare announced its UniConverter V15 with the best **conversion/compression for AV1-encoded videos**.
- In an article from Sports Video Group, Ateme's Gen 7 STREAM encoding engine is noted to deliver superior video quality at lower bitrates for **AV1 compression**.

AV1 Resources

The following are AOMedia member AV1 dedicated resource pages:

- **AOMedia Summit: https://aom-summit.livevideostack.com/**
- **SVT-AV1: https://gitlab.com/AOMediaCodec/SVT-AV1**
- **Mozilla: https://research.mozilla.org/av1-media-codecs/**
- **Visionular: https://www.visionular.com/#portfolio**
- **Vimeo Staff Picks** channel will be delivered using the AV1 codec on supported platforms.

Share your AV1 Successes