



ALLIANCE FOR
OPEN MEDIA



AOMedia Decoder

Q1 2023 Issue

Greetings!

As we head further into the new year, we reflect on the incredible work done by the Alliance for Open Media members to create momentum for 2023.

At [CES 2023](#), AOMedia members announced their latest AV1 advancements and products.

- NVIDIA announced its GeForce RTX 40 Series GPUs that [allow the use of AV1, to enable live streamers to push for higher video resolutions and frame rates](#) as they broadcast.
- [AMD announced the AMD Radeon™ RX 7000 Series Graphics for Laptops](#). Key features of the new graphics offerings include AV1 encoding to unlock new multimedia experiences with full AV1 encode support, designed for ultra-high definition resolutions, wide color gamut, and HDR enhancements.
- MediaTek announced the latest chipset in the Genio platform for IoT devices, the octa-core Genio 700, designed for smart homes, smart retail, and industrial IoT products. The MediaTek [Genio 700 includes dual display support, FHD60+4K60 with AV1](#), and video decode support.
- Intel introduced the new Intel Processor and Intel Core i3 in the N-series family of products – purpose-built for the education segment, entry-level computing, and IoT edge native applications [featuring new AV1 decode](#), high-resolution display engine, and improved IPU and MIPI camera support.



AOMedia member, Meta, hosted the annual [Video@Scale](#) event in November, where multiple industry speakers came to showcase their work on delivering video @scale.

AOMedia Co-Chair of the Testing Subgroup of the Codec Working Group, Meta's Ryan Lei presented "[Scaling AV1 End-to-End Delivery](#)



at Meta,” which explored how Meta enabled AV1 end-to-end from its servers to users’ mobile screens around the world.

The Software Implementation Working Group members at AOMedia have collaborated to cut two releases of the SVT-AV1 open-source AOM project [v1.3.0](#) and [v1.4.0](#), along with a patch release [v1.4.1](#). These releases showcase the continuous improvements contributed to the project and allow multiple companies and other open-source partners to deploy AV1.

IBC hosted a [webinar](#) on AV1 and streaming codecs describing the latest AV1 developments and adoption.

The webinar hosted three industry specialists and AOMedia members, Meta’s Ryan Lei, Netflix’s Andrey Norkin, and Twitch’s Krishna Rapaka.



The discussion took a deep dive into the benefits of AV1 and its prospects in media streaming and elsewhere, with aspects including:

- Efficiency and performance improvements when compared to earlier formats, including VP9 and HEVC
- Ability of AV1 to send streams cheaper and faster, and the impact this is having on the capacity of streaming services
- Limitations of AV1 and how these might be addressed in future iterations of the (AV1) format
- Notable commercial implementations of AV1, and the general outlook for the format in streaming worldwide
- The features that are likely to be required of future coding formats for streaming.

Save the Date! Hear from AOMedia leaders at the [2023 NAB Streaming Summit](#) at the Las Vegas Convention Center on Monday, April 17 from 2:45 PM to 3:45 PM PT. More details are coming soon! Click [here](#) to add the session to your NAB schedule.



We hope to see you in Las Vegas!

Regards,
Alliance for Open Media Board Officers

AOMedia and AV1 in the News

Check out the latest news and updates:

- Meta shares how they’re [enabling production and delivery of AV1 for Facebook Reels and Instagram Reels](#).
- The popular video converter utility HandBrake has been updated this week with some major improvements, including [support for encoding videos using the AV1](#)

[codec](#). Its AV1 encoding can be hardware accelerated with Intel Quick Sync Video or Arc GPU hardware.

- Qualcomm announced Snapdragon 8 Gen 2, the first Snapdragon to include an [AV1 codec with support for video playback up to 8K HDR at 60 frames per second](#).
- NVIDIA Ampere architecture introduced hardware-accelerated AV1 decoding. [NVIDIA Ada Lovelace architecture](#) supports both AV1 encoding and decoding.
- The latest release of [Kodi 20.0 "Nexus" features hardware decoding of AV1](#) media. The Inputstream API has been updated to support AV1 and this allows addons to play AV1 streams.
- [OBS Studio 29.0 adds support for AMD AV1 encoding](#) with Radeon RX 7000 series GPUs as well as Intel AV1 encoding for Arc Graphics GPU systems. This Intel/AMD GPU-accelerated AV1 encode complements the existing NVIDIA GPU support.

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

