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AOMedia Decoder

Q1 2021 Issue

Due to the pandemic, more of the world's population is continuing to use video as part of their daily lives. Instead of meeting in person, going to gyms or heading to movie theaters, we are using streaming services, virtual classrooms, video apps and chat platforms. The ecosystem is responding to this demand by adopting AV1 to power many of the media experiences that help us all connect, stay entertained and work more collaboratively.

AV1 Driving Innovation at the Ecosystem-Level

Since CES, AOMedia members have highlighted new advances in mobility, connectivity services, TVs, encoding and decoding hardware and more:

- [Cisco](#) has begun rolling out AV1 support to enhance video quality for Webex.
- [Google](#) shared its first preview of Android 12, which will introduce platform support for AVIF.
- [Intel's](#) Iris Xe desktop graphics cards will support decoding AV1 content.
- [NVIDIA](#) GeForce RTX 30 Series for laptops comes with AV1 decoding support.
- [Samsung's](#) new Exynos 2100 SoC supports AV1 decoding in its Samsung Galaxy S21.

Welcome OPPO, and Congrats to iQIYI and Visionular

Join me in welcoming our newest member, [OPPO](#), one of the world's leading smart device manufacturers and innovators. Congratulations to AOMedia members [iQIYI](#) and [Visionular](#) for their award-winning AV1 achievements at the Moscow State University (MSU) 2020 Codec Study. Read the full highlight on their AV1 Awards below.

Regards,

Matt Frost
AOMedia VP of Communications and Membership
Director at Google

AV1 Taking Top Honors

Congratulations to AOMedia members [Visionular](#) and [iQIYI](#) for their award-winning AV1 achievements at the [Moscow State University \(MSU\) 2020 Codec Study](#).



The annual MSU Codec Study represents the best round-up of video codec implementations in the video streaming and delivery industry.

- [Visionular's Aurora1 AV1 encoder](#) came first in SSIM quality for the second year in a row for its achieving 72% reduced bitrate at the same quality over x264 using SSIM, 34% reduced bitrate at the same quality over x265 using SSIM.
- [iQIYI's QAV1 encoder](#) achieved recognition by demonstrating an excellent balance between compression speed and image quality, finishing fastest of the top 3 encoders and outperforming most H265 encoders in both compression speed and compression ratio.



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AOMedia and AV1 in the News

- Consumers will be able to enjoy and [stream AV1 codec videos filmed in 8K on Samsung's newest QLED 8K Q950TS](#) – *Hamari Web News*
- On the hardware front, the [Xiaomi Mi QLED TV 4K 55 TV features the AV1 codec](#) – *Android Central*
- Mozilla Firefox Appears Ready To [Enable AVIF Image Handling Support](#) – *Phoronix*
- [Sony embraces the AV1 video format](#) with its 2021 TVs – *Flatpanels HD*
- Intel debuts four new processor chip families at CES that come with [enhanced Intel UHD graphics and support AV1 Decode](#) – *Silicon Angle*
- [VideoSmart VS640 SoC platform offers the AV1 video decode format](#) -- a requirement for future YouTube and Netflix content – *Synaptics*
- Coocaa S6G Pro Smart TV supports [AV1 latest decoding](#) – *LatestLY*
- MediaTek has released [Dimensity 1000C](#), [Dimensity 1100](#), and the [Dimensity 1200](#) cell phone SoC variants that support AV1 hardware decode – *MediaTek*

AOMedia Member AV1 News

The following is the latest member news.

- **Chips&Media** is launching its new high-resolution video IP product, [Wave627 \(encoder IP\), which will support AV1](#).
- **Cisco's** Webex has begun the process of rolling out the advanced [AV1 video codec](#).
- **Google** shared its first preview of [Android 12, which will introduce platform support for AVIF](#).
- **Google** worked with **CoSMo** (Millicast's parent company) to enable [AV1 SVC](#) real-time encoding in Chrome.

- Intel's Iris Xe desktop graphics cards will [support decoding AV1 content](#).
- Intel's [Rocket Lake-S 11th Gen chips](#) come with Enhanced Intel UHD graphics and support AV1 Decode and Intel Quick Sync Video.
- iQIYI's [QAV1 Encoder achieves top rankings](#) at the Global Video Codecs Comparison event.
- NETINT [announced the world's first commercially available hardware AV1 video encoder](#).
- NVIDIA announces GeForce RTX 30 Series for laptops that come with [AV1 decoding support](#).
- Samsung's [Exynos chipset supports AV1 decoding](#).
- VideoLAN's [dav1d 0.8.2](#) released for [speeding up AV1 Decode](#) On x86, ARM
- Visionular's [Aurora1 AV1](#) encoder was awarded by the MSU 2020 Codec Study for the second year.
- Visionular's Zoe Liu discusses [Decoder Complexity Aware AV1 Encoding Optimization](#).

AV1 Resources

The following are AOMedia member AV1 dedicated resource pages.

- **Bitmovin:** <https://bitmovin.com/av1/>
- **Intel:** <https://github.com/OpenVisualCloud/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 (including the recent versions of Chrome and Firefox). Check out [David Jervidal](#)'s Staff Picked film "Capture the North," which is just one example of one of the many videos that will be leveraging AV1.
- [Watch the IBC AV1 Panel](#) featuring Amazon, Facebook, Google, Intel, Netflix and Tencent on-demand.



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