/* ACADEMY SOFTWARE FOUNDATION

6 months Review for OpenAPV

03/19/2025

Youngkwon Lim (Samsung),
Chair of OpenAPV TSC

OpenAPV (sandbox project)

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#ASWF

Brief Description:
To develop a royalty-free, open-source, open standard video codec for professional video capturing and post-production

TSC Chairperson:
Youngkwon Lim
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Initial TSC Members:
Erik Strauss (voting member)
Sam Richards (voting member)
Kevin Wheatley (voting member)
Eric Reinecke (non-voting member)

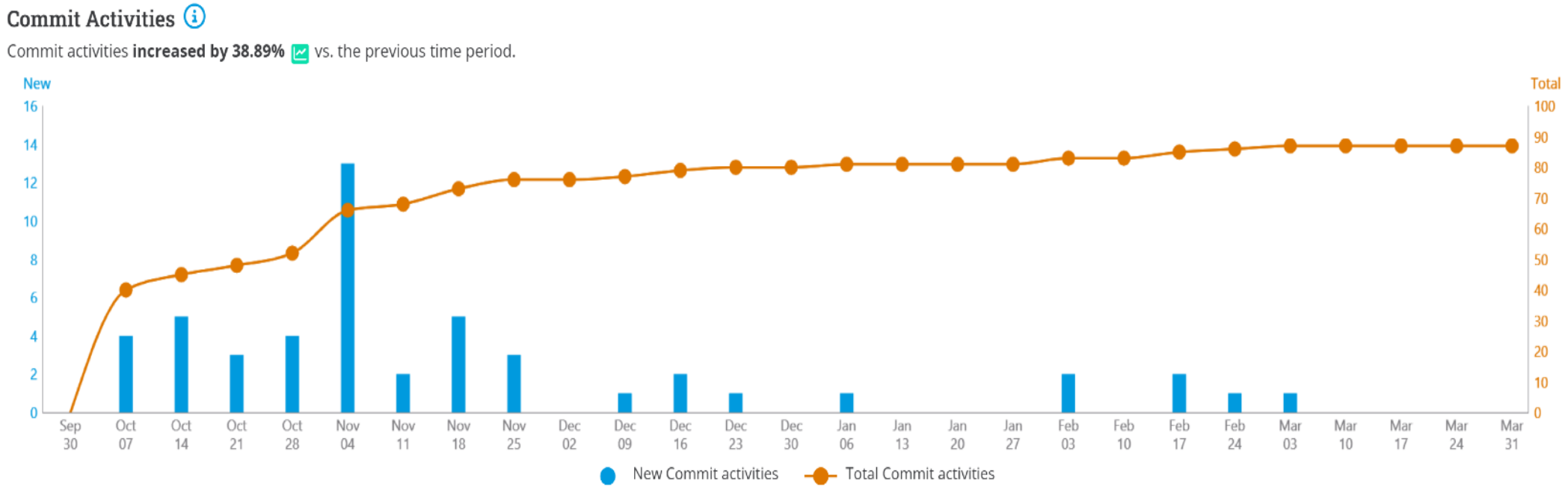
Key Links:
Github: *https://github.com/AcademySoftwareFoundation/openapv*
Website: *none*
Artwork: *WIP'*
Mailing lists:

- openapv-tsc@lists.aswf.io
- openapv-discussion@lists.aswf.io

OpenSSF Best Practice Badge URL: *none*

Technical specification of APV:
https://datatracker.ietf.org/doc/draft-lim-apv/

Github activites



Fixes from extensive tests to improve stability and error resilience for commercial use of the software.

All commits are from Samsung developers so far.

ffmpeg integration is ready for commit soon.

TSC activities

TSC has started to meet bi-weekly from 2024/12 at 17:00 CST on Thursdays:

6 months target agreed:

- To develop a comparative analysis plan and execute it.
- To provide draft report about the landscape of professional video codecs

Current status:

- Discussion on comparative analysis plan *(details in the next page)*

Plan:

- Finalization of analysis condition
- Execution of the comparison
- Drafting the analysis report

TSC activities

Comparative analysis plan (WIP):

- Codecs to be reviewed
  - OpenAPV
  - ProRes: ffmpeg version and/or Mac hardware implementation
  - HTJ2K: OpenJPH
  - DNxHD: ffmpeg version
- Datasets to be used: Netflix open contents
  - FHD, 4K
  - 24fps, 60fps
  - 4:2:2, 4:4:4, RGB
- Metrics to be used: PSNR and/or VMAF
- Axes of comparison
  - encoding/decoding time (Windows PC-based)
  - file size vs quality
  - film grain preservation during encoding/decoding
  - durability: quality degradation after several rounds of encoding/decoding

TAC Open Discussion