

GstVA and GStreamer-VAAPI updates

GStreamer Conference 2025

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The elephant in the room

- In June 10th gstreamer-vaapi was **deleted** from monorepo

Why?

- GstVA (gst-plugins-bad)
 - covers most of the common use cases (and better)
 - functional DMABuf support
 - shared base code with other plugins
- Not enough bandwidth/resources to maintain both projects

What's missing?

(compared with gstreamer-vaapi)

decoders

- vantage2enc (MPEG2 encoder)
- vantage1dec (VC1 decoder)
- vah264dec missing profiles
 - stereo / multi-view

encoders

- ROI support
- they are slower than gstreamer-vaapi
 - it isn't because not-pooled vaBuffers
 - encoding thread??

GstVA

What's new

- vavp8enc (Jochen Henneberg)
- vah266dec (He Junyan)
- vavp{8,9}alphadecodebin (Cheung Yik Pang)

What's next

- Improve encoders base class
 - dynamically generated properties
- RGB (4:4:4) decoding
- vaoverlaycompositor