CELLAR

Codec Encoding for Lossless Archiving and Realtime transmission

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Running Code

• Matroska and EBML go back to 2002
  – Google WebM is fork

• Matroska is a container for multimedia, widely supported, but like a lot of open source, has some issues

• -> need for Rough Consensus
The story so far

- Following in the success of OPUS, a WG was formed in 2015.
- Published RFC7894 (EBML) in 2020
- FFv1 (v0,1,3) in RFC-editor Queue (RFC9043)
- FFv1 v4 being worked on
- Almost all CELLAR WG meetings have been virtual interims, fourth Tuesday of the month.
  - Open source authors, mostly working after hours
  - But, also includes archivists for whom this is part of their day job
What next?

- FFV1 v4 goals include
  - Better Compression and or Speed
  - BAYER support to efficiently store RAW color CCD images
  - Better error resilience
  - Arbitrary color spaces
  - Limit worst case size after compression
- Arbitrary color spaces: Allow storage of any 2D plane of samples not limited to red, green, blue, alpha or transforms of these.
- Examples: Infrared, Radar, surface vectors, height, age, temperature, charge, elasticity, velocity, acceleration
- Also: attestation.
  - What format should autonomous vehicles make their records in, such that they are compatible with courts world wide?