

# #NoTimeToWait 19 July 2016

## FFV1 working group meeting notes

End-of-day shareout (tl;dr):

- Collected who was there and where did we want to go? Features, wishes, significant properties that attendees found important to preserve.
- We had a list of things part of and not part of the codec.
- Very likely that FFV1 is just encoding the frame -- not playing into interlace and compression. There might be more compression to gain if there is existing interlacing. But this needs to be clarified, how does it need to be changed, and so on.
- As we saw with Kieran's DPX example, hard to actually determine the color as it meant to be interpreted, but this is already in version 4.
- Might look at ICC profiles, color is well-charted territory in still imagery and we should see how it's being done there instead of coming up with new ideas.
- Putting info in the codec vs putting it in the container
- In the final 15 minutes, Kieran Kunya was like "this is nice but what about the executive summary?" Lots of technical discussion but doesn't help anyone if institutions are not allowed or wanting to use that format. We can have the best format ever, but if executive level does not care..
- Put together a bullet-list of why it is important, what to tell people
- List of users (more users, easier it is to tell others)
- Numbers (1 this institution has transcoded XXX Petabytes)
- Numbers (2 Money, how much money is saved? How much money was spent?)
- Recommendations list (this paper says it recommends this, this is important)
- Final controversial issue -- error resilience? Opens up a can of worms though, because if we don't have enough backups, etc., the idea of resilience is influenced by broadcast (Peter's perspective)
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UK Archives: use already FFV1

Raw 2 FFV1 impossible (color space? +Bayer +XYZ)

compression ratio is not good (vs lossy)

Good: normalization

VFR: Matroska can go up to nanoseconds

Interlaced content

AVI/v210

video editors

h264 or prores or dpx (convert back to dpx) DNG

streaming ; FFV1 issue with bitrate

Must have color profiles (e.g. ICC)

Signature (authenticity)

framemd5 during conversion

interlaced/progressive, Field order

Real time lossless streaming (what in case of transmission loss?)

DPX to FFV1, DNG to FFV1 without losing metadata (back to DPX DNG)

MKV/FFV1 propaganda vs IMF/MXF. Who use it? Executive summary (numbers x PB x hours of data, x users, how much money saved, recommendations, error resilience)

Native capture to FFV1