RTP Payload Format for Uncompressed Video

draft-ietf-avt-uncomp-video-01

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Changes since -00:

- Editorial nits

- Added:
  - 12bit and 16bit sample sizes
  - monochrome and 4:4:4:4
  - RGBA
  - Applicability statement
  - Comparison with RFC 2431
    "RTP Payload Format for BT.656 Video Encoding"
RTP Payload Header

Two (partial) lines of video data

Figure 1: RTP Payload Format showing two (partial) lines of video data
SDP example

M = video 30000 RTP/AVP 111
A = rtpmap:111 raw/90000
A = fmp4:111 color-mode=YUV; color-sub-sampling=4:2:0; lines-per-frame=1121; pixels-per-line=720; bits-per-sample=8; scan-mode=progressive

- and a number of optional parameters; representation will be completed for the next draft.
Open Issues?

- Representation of optional parameters

- Draft is currently strictly packed:
  - planar: can be added, will an SDP parameter
  - macro-blocked:
    - does it make sense to have packed and planar in the same draft?

- Transport of interlaced 4:2:0

- Time stamps of interlaced fields?
  - Should the two fields have distinct time stamps?
Time stamps of interlaced fields?

- Should the two fields have distinct time stamps?
- May be redundant:
  - it is derivable from bit field and frame rate

Progressive (29.97fps)  Interlaced (29.97fps)