RTP Payload Format for SVC Video – draft-ietf-avt-rtp-svc-01

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draft-wenger-avt-rtp-svc-03 / -00: Changes

- Alignment with JVT Joint Draft 8, Hangzhou Meeting, October 2006
- Removed SSRC mux in -00, also removed from draft-schierl-mmusic-layered-codec-03
- For transport differentiation: Session mux. only
- Changed use-case for MANE as translator
- Extended header for PACSI NAL unit
- Added recommendatory packetization rules for SEI messages and non-VCL NAL units
- Added the fields of picture start, picture end, and Tl0PicIdx to PACSI NAL unit
- PACSI now contains JVT related IPR

Rolling up: SSRC discussion

- Original SSRC multiplexing use-case for SVC:
  Adaptation of encrypted and authenticated content without being in the security context.

- Found out: Not possible, since RTCP receiver feedback is also authenticated within SRTP
  But adaptation requires adjustment of RTCP feedback

- That means: Not possible to cover full SRTP functionality, but may be still a use case

- Remaining use-case:
  (1) Adaptation of Payload encrypted media stream without authentication
  (2) Adaptation of media stream without parsing Payload header in strongly restricted use-cases

- Does AVT think these are compelling use-cases ?

Open issues/TBD:

- (De)-Packetization rules need work

- Alignment with the SVC specification (ongoing)

- Usage with the SDP Offer/Answer Model

- Usage in Declarative Session Descriptions

- Usage with Capability Negotiation

- Session multiplexing: more rules for DON generation and DON specific parameters

- Parameter Set considerations

- Example section

Thanks for your attention!