RTP usage in CLUE:
Updates from other IETF working groups

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I E T F

AVTCore status (1)

- AVTcore provides guidelines on multiplexing multiple media streams of same and different types.

    - draft-ietf-avtcore-multi-media-rtp-session

    - draft-ietf-avtcore-multiplex-guidelines

    - draft-ietf-avtcore-rtp-multi-streams

- There is also a document on grouping RTCP reception reports

    - draft-ietf-avtcore-rtp-multi-stream-optimisation

- These are items that a CLUE endpoint implementer would need to understand, but which (probably) won't directly impact CLUE standardization work.

AVTCore status (2)

- RTP topologies in draft-ietf-avtcore-rtp-topologies-update
  - Should be reviewed in the CLUE context to verify that the relevant topologies are addressed.
  - CLUE documents discussing media topology should cite it, and align terminology.

AVTExt status

- RTP taxonomy in draft-ietf-avtext-rtp-grouping-taxonomy
  - Provides common terminology for RTP-level entities and the relationships between them.
  - Discusses correspondences with CLUE entities. Should be reviewed in a CLUE context for correctness and completeness.
  - CLUE documents discussing media entities should cite it, and align terminology.

MMUSIC status: BUNDLE

- Multiplexing Negotiation Using SDP Port Numbers in draft-ietf-mmusic-sdp-bundle-negotiation:
  - Allows media from multiple SDP m= media description blocks to be put into a single RTP session.
  - CLUE endpoints (which will have large numbers of RTP flows) will almost certainly want to use this.
  - CLUE standardization can (probably) safely interact with BUNDLE at arms-length.
    - CLUE encodings are associated with m= media description blocks (by a=label) so we get the benefits of BUNDLE without needing to be tightly coupled to it.
  - CLUE may want an overview document describing how this is done? Or even normatively requiring support for BUNDLE?

MMUSIC status: Other drafts

- A Framework for SDP Attributes when Multiplexing in draft-ietf-mmusic-sdp-mux-attributes.
  - Framework for analyzing the multiplexing characteristics of SDP attributes when using bundle

- The Session Description Protocol (SDP) Application Token Attribute in draft-even-mmusic-application-token.
  - Defines a token that can be used to associate an RTP stream with SDP media description block.
  - At least some part of this is necessary for BUNDLE; details still being resolved.

CLUE RTP mapping

- Using the SDP Application Token Attribute as the CaptureID
  - Authors' intention is that AppId would be used as CaptureID for CLUE.
    - AppId is largely modeled on CaptureID; same authors.
  - Will update clue-rtp-mapping to use AppId if MMUSIC accepts it.
- We believe that BUNDLE+AppId satisfies all the RTP requirements in clue-rtp-mapping.
  - With some "advanced" features of AppId:
    - Dynamic assignment of AppId to RTP packet stream
    - Assignment of multiple AppIds to a single RTP packet stream.

CLUE RTP mapping

- The document needs updating.
  - Propose changing the title to RTP usage and update the text to address the RTP aspects for CLUE, including multiplexing of RTP streams.