Message Stream ID

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What It Is

• A mechanism for declaring associations between SSRCs
• The SSRCs may be in the same or in different RTP sessions
• The SSRCs may have additional data attached to their membership in the association
• Used by WebRTC to identify the binding between an SSRC, a MediaStreamTrack and a MediaStream
Current Status, Changes Ahead

draft-alvesstrand-mmusic-msid-01

- Accepted as an MMUSIC draft
- Accepted as "solving the problem" in RTCWEB
- WEBRTC (W3C) last week decided to ask for a change in the "application data" format
Open Issues (MMUSIC) (1)

- Registry: can we reuse semantics?
  - Pro: Already defined how to use for existing semantics
  - Con: Makes MSID-only semantics turn up in other registries
  - Meh: Cost of another registry to maintain?

- Identifiers: What syntax?
  - "Token": SDP standard, XSS vulnerable
  - Numbers (or hex): Simplest
  - Alphanumerics+dash+some: Current
Open Issues (MMUSIC) (2)

● Grouping identifiers: What semantic?
  ○ MUST NOT reuse (current)
    ■ Need for infinite memory?
    ■ Satisfiable by randomness?
  ○ MUST retire-before-reuse
    ■ Satisfiable after a completed O/A exchange
  ○ MUST be random numbers? (currently SHOULD)
  ○ Someone Else's Problem (put in app-specific)

● Document structure
  ○ Keep as one document
  ○ Split out WebRTC semantic as separate doc
  ○ (Do we foresee other users?)
Questions? Suggestions?