

# RTP Clock Source Signaling

draft-ietf-avtcore-clksrc-01

Aidan Williams, Audinate

Kevin Gross, AVA Networks

# Changes in clksrc-01

- More detail in recent email to the list
- Three issues for discussion today:
  - Clock “confidence” / “quality” signaling
  - Clock stratum signaling
  - Stream reference media clock section update

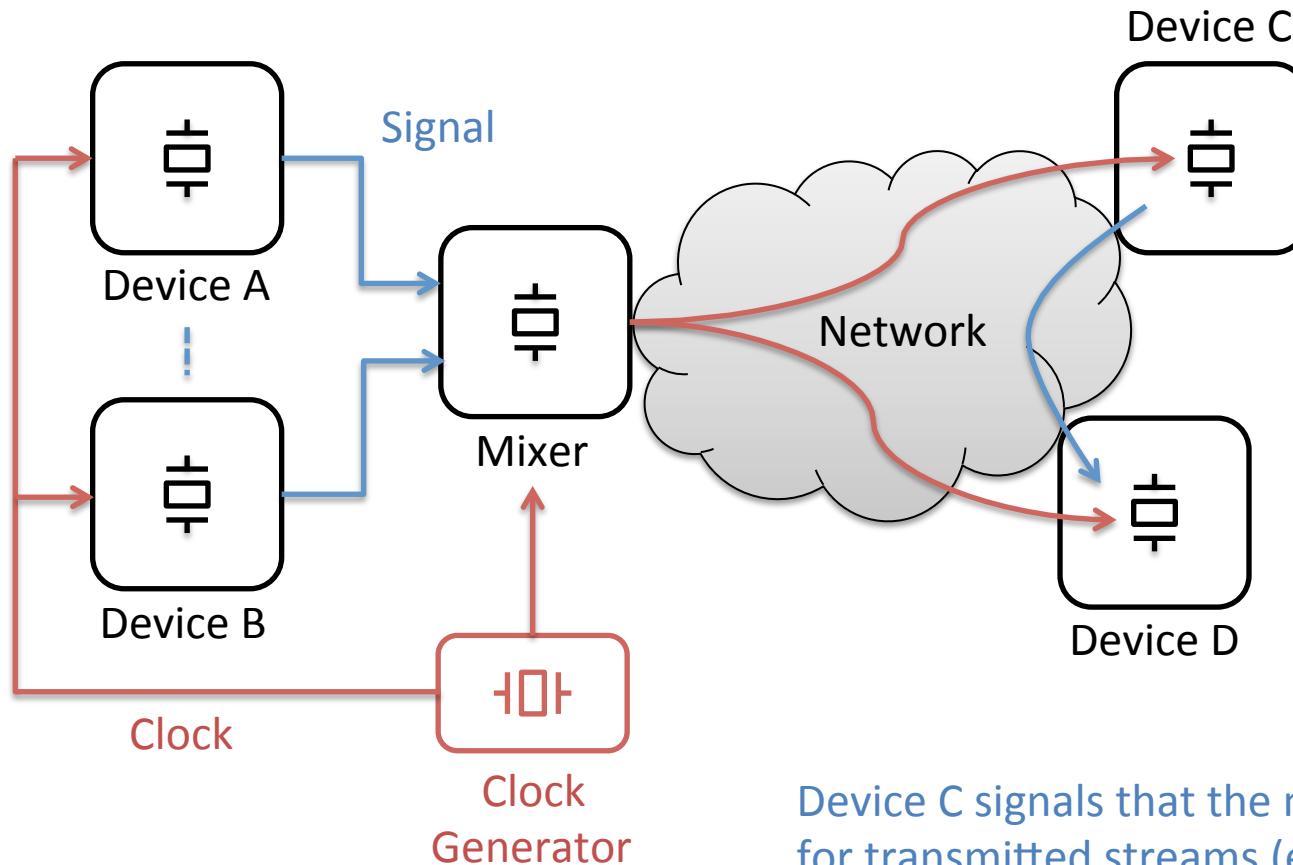
# Issue: “confidence” / “quality”

- Changes after discussion at the last IETF
- Originally included to support IDMS
  - A simple “clock check” mechanism
- Terminology change: “confidence” -> “quality”
  - “confidence” implied something statistical
- On further reflection, it could be removed
  - Statistical quality measures fit better into RTCP
  - IDMS authors are OK with it being removed

# Issue: clock stratum signaling

- Last IETF, a generic traceable clock type, identified by stratum value was suggested
  - Avoid the need for “gps”, “galileo”, etc clock types
- After researching, found
  - Stratum describes interconnection of NTP clocks
  - Stratum no longer a reliable indicator that clocks are synchronized
- Conclusion: We believe signaling the source of the clock is the most appropriate and reliable method for signaling a timestamp clock

# Stream-ref media clock update



Device C signals that the media clock for transmitted streams (e.g. C->D ) is locked to the stream from the mixer.

# Stream-ref media clock signalling

- Identify media clock master with a media clock ID
  - EUI48
  - Generated using RFC6222 “short-term persistent RTCP CNAME” algorithm (can pick MAC address)
  - No IP addresses, SSRCs, CNAMEs, etc
- Media clock master stream SDP
  - `a=ssrc:12345 mediaclock:master id=EUI48`
- Media clock slave stream SDP
  - `a=mediaclock:slave id=EUI48`

# Next steps

- Next revision should be ready for WGLC
  - Remove “quality” signalling
    - Confirm on the mailing list
  - Review, fix a few typos
  - Address feedback people have on this draft
- Now would be a good time for people to read/review this draft
- Any other issues?