

Multiple clock rates

draft-petithuguenin-avtext-multiple-clock-rates-00

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History

First presentation @IETF 77 in Anaheim CA.

Survey at SIPit 26. Many thanks to Robert Sparks and all the participants.

Milestone added to avtext charter.

Draft presented today again to request adoption by the WG.

The Problem

- Using multiple clock rates in the same RTP session is underspecified:
- Some implementations use a different SSRC for each clock rate.
- Some implementations change the clock rate without changing the SSRC and use monotonic RTP timestamps.
- Some implementations change the clock rate without changing the SSRC but use non-monotonic RTP timestamps.

Changes since last presentation

- RTP sender SHOULD use the same clock rate but MAY use a different rate if they do not use RTCP.
- RTCP BYE MUST be sent and a new SSRC selected when switching between clock rates.
- Compound RTCP packet contains one SR for the current clock, and one for the previous clock.

TODO

- Reviews please.
- Verifying interoperability between legacy implementations and implementations of this document.
- Security section.

Next

- Adoption as WG item?
- Questions?