Guidelines for Using the Multiplexing Features of RTP

draft-westerlund-avtcore-multiplex-architecture-02

Magnus Westerlund – Ericsson
Bo Burman – Ericsson
Colin Perkins – University of Glasgow
Harald Alvestrand – Google
Overview

• RTP has always supported group communication and multiple media streams
  • Many users of RTP required only two-party calls with single media streams
• Review multiplexing features in RTP; give guidance on what features are suitable in what circumstances

• Contents
  • RTP Concepts
  • RTP Topologies and Issues
  • Alternatives for using Multiple Streams in RTP
  • Archetypes (single SSRC per session; multiple SSRCs of the same type; multiple sessions for one media type; multiple media types in one session)
Status

• This draft is too long, and lacks focus
  • It spends too long describing RTP topologies
  • It spends too long discussing areas of the RTP specification that need clarification, but that little impact the overall multiplexing architecture
  • It includes so much context that the recommendations are obscured

• However, the core guidelines are needed
Next Steps

• Clear that we need to revise RFC 5117 (topologies)
  • Designers of RTP middleboxes have been more creative than envisaged
  • Useful to document these new approaches to building RTP topologies, and their advantages and limitations
  • This will allow us to simplify this multiplex-architecture draft

• This draft needs a significant editorial pass
  • Remove unnecessary material
  • Ensure clear guidelines are provided
  • This should make multiplex-architecture ready for WG adoption