

Guidelines for Using the Multiplexing Features of RTP

draft-westerlund-avtcore-multiplex-architecture-02

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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