

Options for Multiplexing Multiple Media Flows in RTP

[draft-westerlund-avtcore-multiplex-architecture-01](#)

Bo Burman / Ericsson

Colin Perkins / University of Glasgow

Magnus Westerlund / Ericsson

Outline



- › Purpose
- › Why is a document needed?
- › Content
- › Updates
- › WG Adoption

Purpose



- › To publish a document that provides RTP application designers with information about:
 - The existing RTP multiplexing points
 - › RTP Session
 - › SSRC
 - › Payload Type
 - The implications of making a particular choice
 - Guidance on how to make good choices
- › To accomplish this purpose we believe there should be:
 - Objective descriptions and analyses
 - WG consensus on content

Why is a document needed?



- › RTP [RFC1889] was originally written more than 16 years ago:
 - The world has changed since then. Considerations that weren't important then may be today
 - What was selected to be documented of the motivation for design or recommendation may no longer be the only relevant things
- › We now have a richer environment with more RTP/RTCP extensions, and signaling methods
- › RTP is still used in a wide variety of applications and topologies
- › Applications using multiple media streams appear to be on a rise
- › Better documentation
 - Allows extension writers like this WG to make less mistakes
 - Lets application designers get more out of RTP

Document Content



- › RTP Multiplexing Points
- › High level options when having multiple media streams
- › RTP Topologies including some that aren't in RFC 5117
- › Discussion of aspects of multiple media streams
 - RTP/RTCP
 - Interworking
 - Signaling
 - Network
 - Security
- › Arch-types that are contrasted in implications
- › Guidelines
- › Proposal for future Work

Summary of Updates



- › New Introduction making purpose of document clearer
- › New section on Arch-types
 - Including an RTP session with multiple media types
- › New discussion topics
 - Interworking
 - Media Stream Usage
 - Complexity implications of security
- › Moved Payload Type multiplexing to an appendix

WG Adoption



- › We believe clearer guidance on options for multiplexing in RTP is needed by the community
 - To understand the trade-off between various alternatives
 - To document options for new application categories, and understand their impact on the installed base
- › To move forward, community consensus is needed on these issues
 - Recommend this draft be developed as a WG item
 - Co-authors with different viewpoints should be added
 - Feedback should be incorporated