

A Taxonomy of Grouping Semantics and Mechanisms for RTP Sources

draft-ietf-avtext-rtp-grouping-taxonomy-02

Changes Since -01

› Major re-structure

- Removed excessive sub-sectioning for better TOC visibility of terms
- Removed topology section to avoid conflict with topology-update

› Added

- Clock rate change [RFC7160] also valid reason for SSRC change
- Sub-section on clock source signaling [RFC7273]
- Sub-section on RTP stream duplication [RFC7197, RFC7198]
- Section on mapping existing terms to taxonomy terms (see next slide)

› Changed

- “Packet Stream” → “RTP Stream”, more precise, from list comments
- Clarified text SVC SST and MST, from list discussions
- Removed incorrect statement on synchronization and CLUE scene
- A number of editorial changes and improvements

Mapping of Existing Terms

- › RTP terms from current RFCs or far-progressed drafts
- › Describe in Taxonomy terms
- › One term per sub-section; visible (sorted) in TOC
- › More terms needed?

RFC 6190 Transmission Modes

Current draft: SST/MST is a (multi-)RTP Session property

SST-SS: A *single* RTP session with a *single* SST RTP stream from a single media source

MST-SS: *Multiple* (related) RTP sessions, each carrying exactly a *single* MST RTP stream per media source

SST-MS: A *single* RTP session with *multiple* SST RTP streams, each from a single media source

MST-MS: *Multiple* (related) RTP sessions, each carrying *one or more* MST RTP streams per media source

Probably better: SST/MST is a per-media-source encoder property

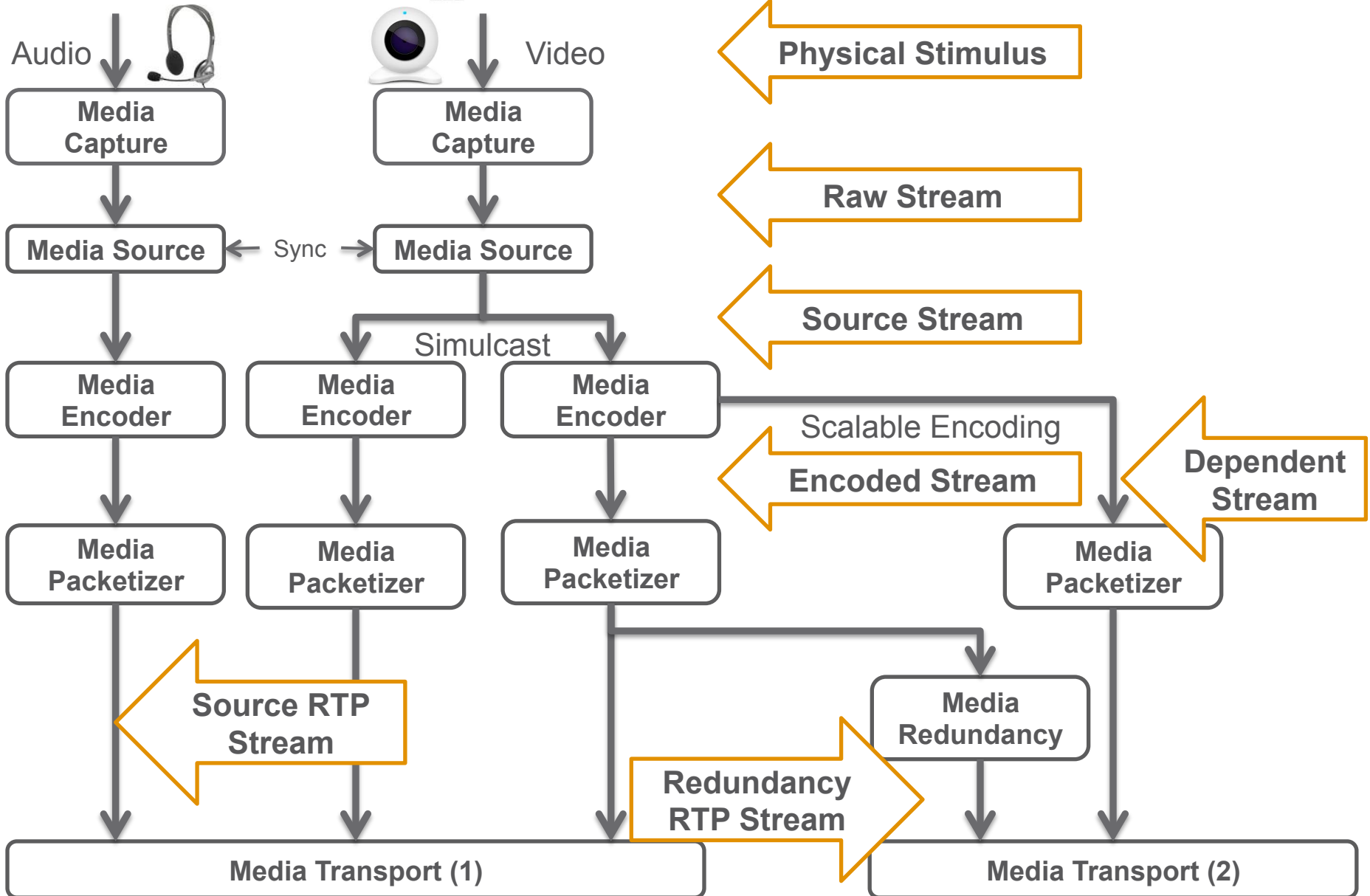
SST-SS: The encoder produces a *single* SST RTP stream that is sent in a *single* RTP session

MST-SS: The encoder produces multiple MST RTP streams, distributing a *single* RTP stream onto each of *multiple* RTP sessions

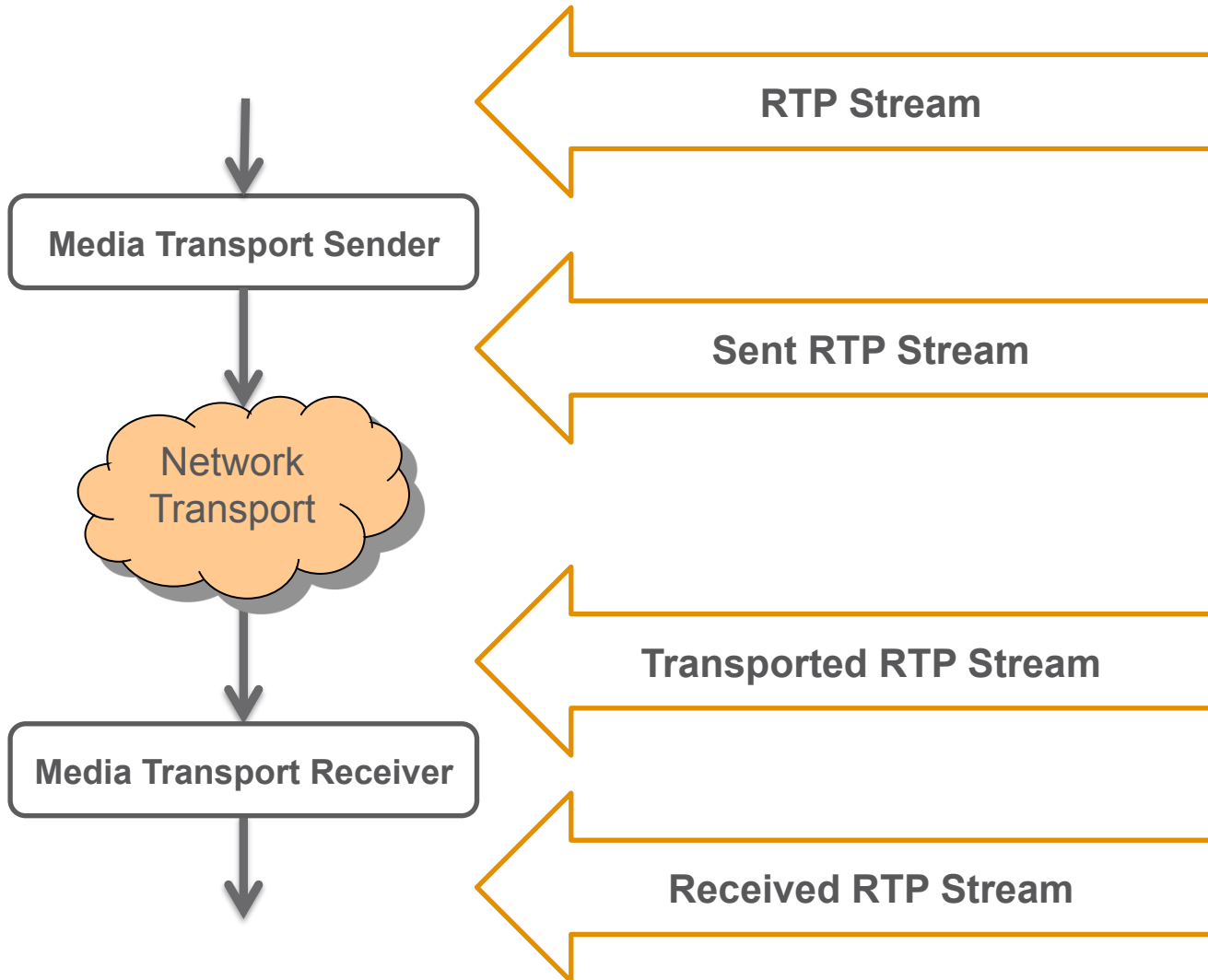
SST-MS: The encoder produces *multiple* SST RTP streams that are all sent in the same, *single* RTP session
(makes no sense for a single media source)

MST-MS: The encoder produces multiple MST RTP streams, distributing *one or more* of them onto each of *multiple* RTP sessions

Media Chain Sender Side

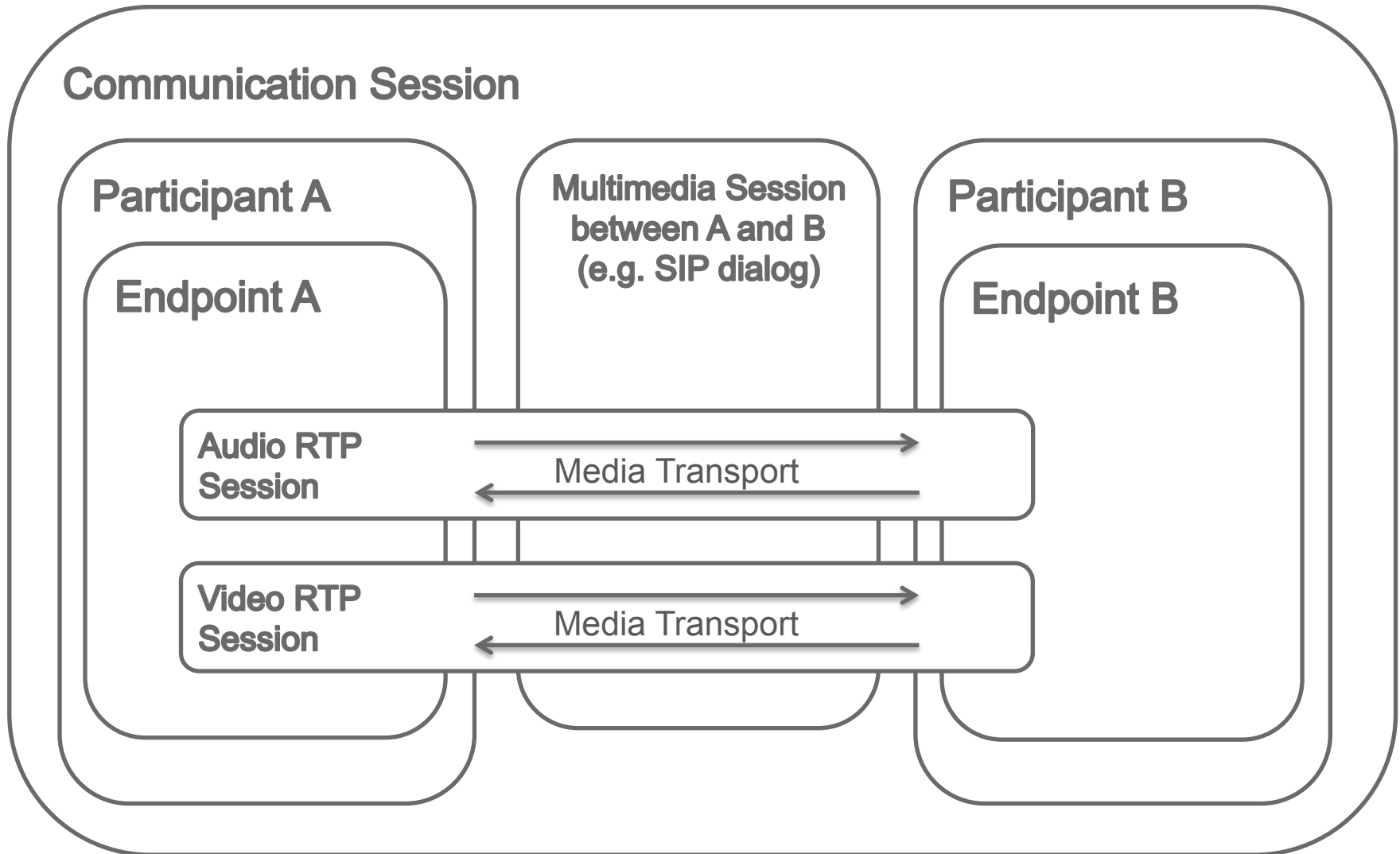


Media Transport Detailed





Communication Entities



Way Forward

- › Ready for WG last call?