

RTCP SDES SRCNAME

draft-westerlund-avtext-rtcp-sdes-srcname-02

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IPR Disclosure

- › For referred draft-westerlund-avtext-rtcp-sdes-srcname
 - <http://datatracker.ietf.org/ipr/1638/>
- › Unchanged since -00

Presentation Goal

- › WG consensus that it is a desired feature
- › WG consensus on suitability of proposed solution
- › Adoption as WG draft

Problem and Motivation

- › An endpoint needs to send several related RTP media streams
 - Simulcast versions of same media source
 - Decoding Dependency (scalability)
 - Forward Error Correction and Redundancy
 - Retransmission
- › Relation on RTP level needed, without involving signaling (SDP)
 - In-path addition of FEC or redundancy
 - Large number of dynamically appearing senders, e.g. multicast
- › A single stream can have several relations simultaneously
- › Other ways of grouping are not always sufficient
 - SSRC; cannot use as group identifier, and may collide and change
 - CNAME; identical for an entire synchronization context from an endpoint
 - SDP; m-block or SSRC grouping not always available in media path
 - Implicit; e.g. correlating SN between different streams, is not fail-safe

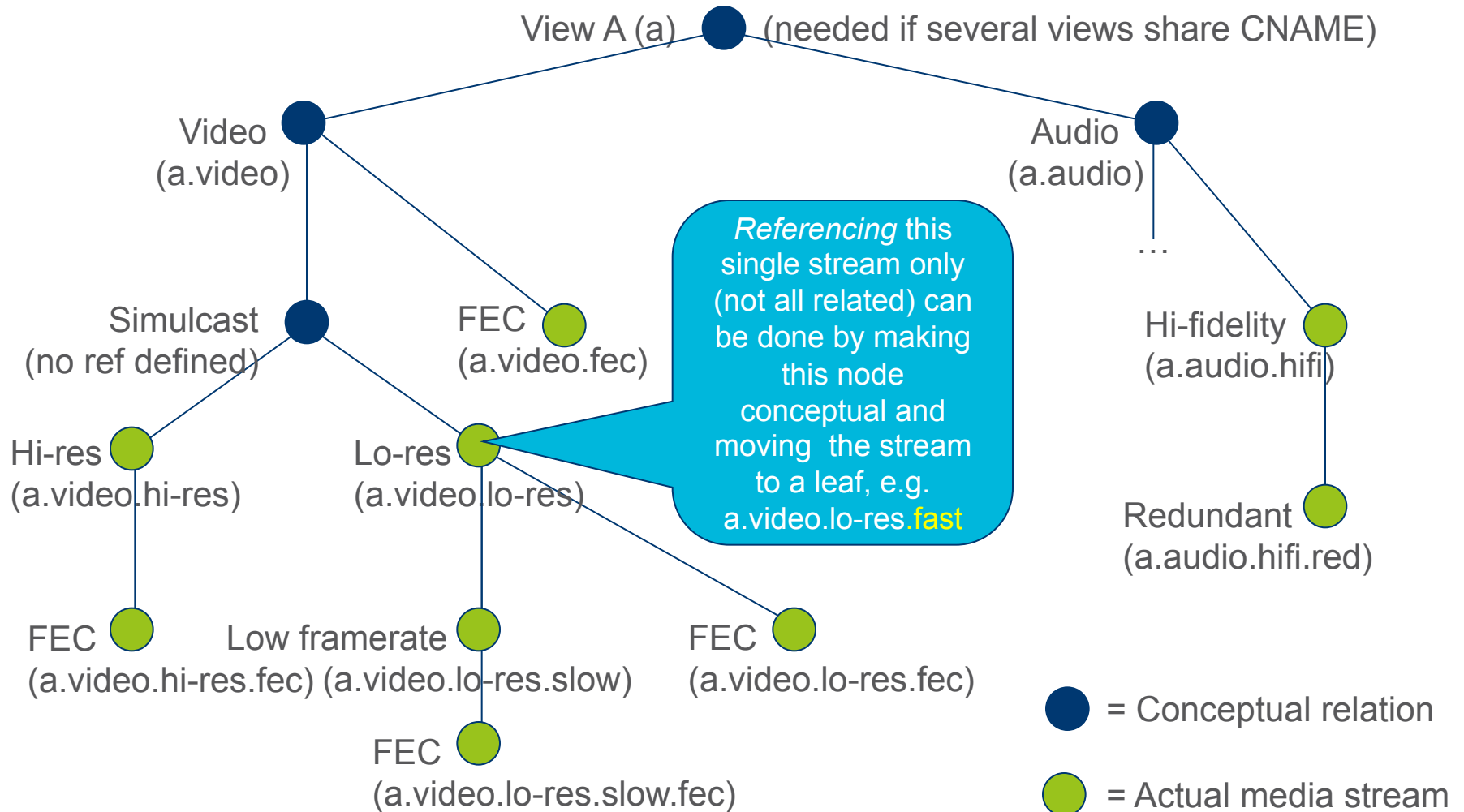
Wanted Functionality

- › Relating RTP media streams (SSRC) on RTP level
 - Two or more streams can be related
- › Possible to relate streams in different RTP sessions
- › Must not require to be in signaling path
- › Single media stream may have multiple relations
- › Quick discovery of relations on receiving streams

Changes Since -01

- › First presented at IETF 82 in Taipei
 - <http://www.ietf.org/proceedings/82/slides/avtext-2.pdf>
- › No time to present at IETF 84 in Vancouver
 - <http://www.ietf.org/proceedings/84/slides/slides-84-avtext-2.ppt>
- › Received comments since -00:
 - Support more than a single relation per media stream
 - Possibility to distinguish which part is which in a relation
 - Quicker discovery of relations on receiving streams
- › Changes:
 - Hierarchically structured SRCNAME
 - Added support for SRCNAME as optional RTP Header Extension

Relation Example



Proposed Solution

- › New RTCP SDES called SRCNAME
- › Hierarchical value format, enabling relations on different levels
 - “.” (period) delimiting hierarchy levels is the only content restriction
 - Compare SRCNAME for match left-to-right, per level
 - Streams relate down to the level they match
 - No defined restrictions or conventions on naming
- › Allow multiple SRCNAME, each describing one relation
- › Optionally also in source-specific SDP [RFC 5576]
- › Optionally also as RTP Header Extension [RFC 5285]

Way Forward

- › Should the problem be solved?
 - Draft currently referenced with “must” statement by
 - › draft-ietf-avtext-rtp-duplication
 - › draft-ietf-mmusic-duplication-grouping
- › Is the proposed solution favored by the WG?
- › Should the draft be adopted as a WG draft?