

SRCNAME – A RTCP Source Description Item

draft-westerlund-avtext-rtcp-sdes-srcname-03

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OVERVIEW



- › IPR Declarations
- › SRCNAME Proposal
- › SRCNAME Open Issues
- › Relation to APPID
- › Next Steps

IPR Declarations



- › There exist IPR Declarations on [draft-westerlund-avtext-rtcp-sdes-srcname-03:](#)
 - Ericsson
 - › <https://datatracker.ietf.org/ipr/1638/>
 - Microsoft
 - › <https://datatracker.ietf.org/ipr/1932/>

SRCNAME



- › This version has been scoped down
- › Targets the needs of Simulcast:
 - [draft-westerlund-avtcore-rtp-simulcast-03](#)
- › Provide a SSRC with the Identify of its:
 - Media Source
 - Encoding Configuration
- › Enables a RTP Receiver to immediately determine:
 - Is this an alternate encoding of a Media Source
 - What Properties does this encoding have

SRCNAME



- › Media Source is the combination short source identifier
 - Scoped by CNAME
 - CNAME ensures inter endpoint uniqueness
 - Thus short token
- › The Encoding Configuration Identifier
 - short token
 - Bind it to encoding configuration in signaling
- › srcname = <media-source>.<encoding-id>
- › Example: “a.G”

SRCNAME



› SRCNAME Distribution

- RTCP: Default method
- RTP Header Extension: Optional
 - › [draft-westerlund-avtext-sdes-hdr-ext-01](#)
- SDP Signaling as Source attribute: Optional
 - › a=ssrc: 123456789 srcname:a.G

› Available with SSRCs in RTP/RTCP

› Intended to be persistent on per SSRC level

- A given SSRC should not change its SRCNAME

› Conceptual Source like mixes

- Is there own sources
- Contributing Sources can be ID through CSRC => SRCNAME

SRCNAME Open Issue



- › Usage of SRCNAME on Redundancy Packets Streams
 - Examples:
 - › RTP Retransmission (RFC 4588)
 - › XOR FEC (RFC 5109)
 - These are one to one mappings with Source Packet Streams
- › Use the same SRCNAME and you know there is a relation?
 - But not what!
 - › Given by RTP Payload Type in the above cases

Relation to APPID



- › Assuming APPID is an indication to SSRC
 - Could be a replacement for SRCNAME
 - Then each Simulcast Source Packet Stream needs its own APPID
 - Bind that to Media Source and Encoding Configuration
- › However APPID requires:
 - A Receiver must create sufficient number of APPIDs for the Media Sources the sender have
 - That signaling can distribute the APPIDs
 - › Broadcast or Multicast can fail these
- › SRCNAME has explicit semantics:
 - Works in all cases independent of configuration

Next Steps



- › A solution for stream correlation
 - Required if Simulcast goes forward
- › APPID discussion needs to continue
 - Willing to give it some time to mature
 - APPID can solve a complementary problem
 - › Provide Purpose for Simulcast Encoded Streams
- › Explicit Semantics has advantages
- › Please review and provide feedback
- › Later consideration for adoption