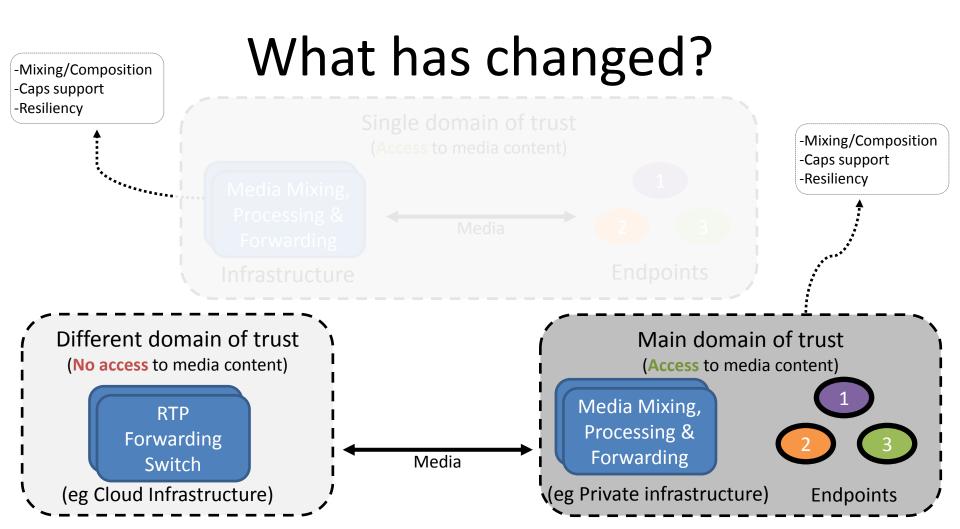
Multi-Party Conferences with end-to-end Media Privacy

IETF 90 Toronto

AVT Core Working Group

Draft-ismail-avtcore-sec-media-req-00 Nermeen Ismail – Cisco Systems



RTP Forwarding Switch infrastructure must not

access or modify media content without prior

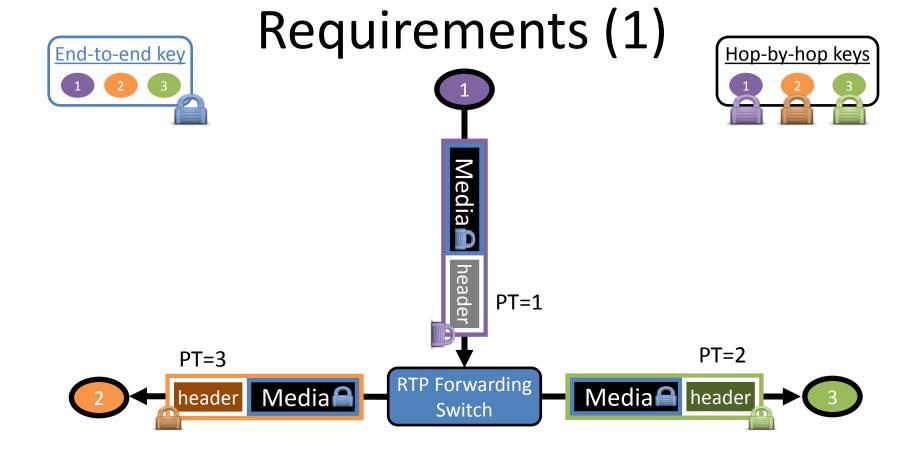
authorization

However

- Authorized RTP forwarding switch infrastructure needs to manipulate RTP header fields
 - RTP payload type
 - RTP extension headers
 - Potentially any field the SRTP encryption cipher is not dependent on
 - For current default cipher, SSRC & SeqNo can not be changed
- RTP forwarding switch infrastructure needs to forward streams to new receivers while current receivers exist

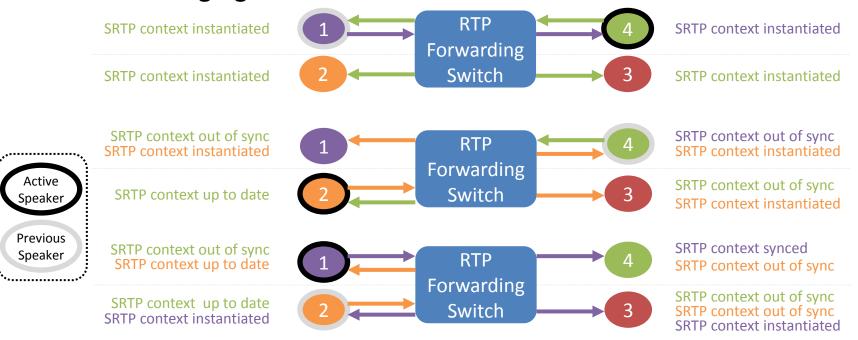
Requirements (1)

- RTP forwarding switch infrastructure must not generate, nor access, crypto keys used for media payload privacy and authentication without explicit authorization
- RTP forwarding switch can change any RTP header parameter, modulo SSRC and SeqNo/RoC for current default SRTP cipher
- Authentication and authorization for media privacy keys access must be independent of RTP forwarding switch infrastructure



Requirement (2)

 End to end SRTP context synchronization (RoC) between senders and changing set of receivers



Questions

Enough interest to move forward with the work?

- Which WG for hardened use cases and requirements?
- Need a solution framework? Which WG?
 - RTP/SRTP
 - Key management (?)
 - Identity (?)