Audio/Video Transport Core Maintenance (AVTCore) Working Group meeting notes

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Notes taker: Bo Burman and Keith Draige.
Jabber Scribe: Jonathan Lennox

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The Meetecho recording is in IETF91_AVTCORE

AVTCore Status Update - Roni

Magnus did not attend the meeting.

The slides are in http://tools.ietf.org/agenda/91/slides/slides-91-avtcore-0.pdf .

Open issue on draft-ietf-avtcore-aria-srtp-07 being a standard track document in order to register SDES SRTP Crypto Suite with IANA is that a problem. DTLS and MIKEY do not require standard action. This issue came in the IETF LC. EKR was worried about endorsing multiple cypher-suites Bernard Aboba mentioned that by not registering a countries Cypher suite creating a political problem (may look like registering only US cyphers). Keith said that the IETF is not defining a Cypher suite, it is registering a codepoint for a cypher suite that some other organization has defined and creating an IANA registration should never be regarded as an IETF policy. Roni had the same view in the IETF LC.

There was a question of implementations of ARIA and Cullen said he will check with Cisco.

Next step to see if there are implementations and if not propose to split the document having SDES in a separate document and ask MMUSIC view about lowering the registration requirements for SDES to lower than standard track.

RTP Topologies in draft-ietf-avtcore-rtp-topologies-update-04 presented by Stephan Wenger. Current version 05 is an update after the meeting.
Slides are in http://tools.ietf.org/agenda/91/slides/slides-91-avtcore-4.pdf.

The document was in WGLC and there is an open comment that the topologies-update draft does not specifically address the requirements for middleboxes related to the use of RTP header extensions in the context of consistency with RTCP signaling. This has relevance for bundle and CLUE.

The conclusion was that it will be good to have some general text about consistency between RTP header extensions and RTCP and the interested parties will meet offline and draft text. Section 4.7 of the 05 version includes this text.

Circuit Breakers in draft-ietf-avtcore-rtp-circuit-breakers-08 was presented by Varun Singh. The presentation was based on the 07 version and is in slides-91-avtcore-1.pdf.

Version 07 includes updates on when to trigger circuit breaker, congestion response in low rate sessions. It also talks about impact of layered coding and there was a comment that should not say reduce sending rate by 10x but be less precise for example say by an order of magnitude.

The open issue is on scaling triggering interval: the current text propose trigger after fixed number of RTCP reporting intervals. Should it trigger after fixed time instead? The current algorithm triggers more quickly for higher rate flows, is it desirable? Propose having a certain number of seconds before triggering. This needs more input

The document will be updated based on the discussion in the meeting.

Encrypted Key Transport for Secure RTP in draft-ietf-avtcore-srtp-ekt-03 was presented by John Mattsson. The presentation is in slides-91-avtcore-6.pdf.

The document was updated from 02 based on comments. There was still an issue with SRTCP compound packets where encryption key is based on the first SSRC in the compound packet, need text this was also discussed for the 03 version and the proposal is to require EKT for both SRTP and SRTCP for the cases were they have different endpoints and when they do not share context.

There is another issue with the 03 about SRTP master salt length and requirements on ciphersuites. The proposal that seems OK was to remove ciphersuites from section 2 and state that a single SRTP parameter set is needed for EKT to set up new SSRCs.

Requirements for Private Media in a Switched Conferencing Environment in draft-jones-avtcore-private-media-reqts-00 was presented by Nermeen Ismail and John Mattsson. The presentation is in slides-91-avtcore-5.pdf

This document was written as was agreed in the Toronto meeting where we had two separate presentations on the topics.

Most of the discussion at the meeting was about the requirements on the media plan to allow a solution that is not only switching all the media like a mesh conference. What the middlebox need to know in terms of RTCP (if encrypted), for example handling codec specific control messages, congestion and layered coding. The requirement should list all the things that we cannot live without as requirements.

The authors would like to get more comments on the mailing list and prepare a new version. There is an interest in the work. Based on a new version the WG chairs will ask for adopting this work.

IDMS for IPTV Environments in draft-stokking-avtcore-idms-for-iptv-00 was presented by Bastiaan Wissingh. The presentation is in slides-91-avtcore-2.pdf.

Seems no one in the room read this draft, except for the chair (Roni). Roni doesn't understand why not use separate simulcast groups. Roni suggests to the group to read the draft and see if it makes sense. No one volunteers to read and comment on the draft right now.

 The authors should try to get reviews sent to the mailing list.

RTP Payload Format for Non-Interleaved and Interleaved Parity(FEC) in draft-singh-payload-rtp-1d2d-parity-scheme-00 was presented by Varun Singh. This is a Payload WG document, the presentation is in slides-91-avtcore-3.pdf and it was presented in the AVTcore session since there was no payload session at IETF91.
RTCweb FEC usage is waiting for a solution and this document tries to address it. The current flexfec proposal, result of internal discussions, is slightly different from what is currently in the draft.

Need some discussion and will have a call for adoption.