

MMUSIC @ IETF 94

Chairs:

Flemming Andreassen

Bo Burman

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Agenda

09:00-09:15 Introduction and Status Update (15 mins, Chairs)

09:15-09:55 Using the SDP Offer/Answer Mechanism for DTLS (40 mins, Christer Holmberg)

09:55-10:25 Negotiating Media Multiplexing Using the Session Description Protocol (30 mins, Christer Holmberg)

10:25-10:55 RTP Payload Format Constraints (30 mins, Adam Roach)

10:55-11:25 Using Simulcast in SDP and RTP Sessions (30 mins, Mo Zanaty)

11:25-11:30 Multi-view Stream in SDP and RTP Sessions (5 mins, Rachel Huang)

New ICE Working Group and New MMUSIC Co-Chair

- Ari will be co-chairing ICE instead of MMUSIC going forward
 - Many thanks to Ari for his service to MMUSIC
- Bo Burman is our new MMUSIC co-chair
 - Welcome Bo
- ICE WG will focus on the ICE protocol and its extensions
 - SDP specifics will remain in MMUSIC

MMUSIC Charter Update

The Multiparty MULTimedia Sesslon Control (MMUSIC) Working Group was originally chartered to develop protocols to support Internet teleconferencing and multimedia communications. These protocols are now reasonably mature, and many have received widespread deployment. Currently, the group is focused on using and negotiating media streams with the Session Description Protocol (SDP), which is used as a common protocol to express media and session descriptions. The group also maintains the Real-time Streaming Protocol (RTSP) specifications.

The group has revised these protocols in the light of implementation experience and additional demands that have arisen from other WGs (such as AVTCORE, CLUE, ICE, and RTCWEB). In particular, the many uses of SDP have led to requests for numerous extensions as well as a recognition of several limitations in the original protocol design. Today, the SDP protocol is widely deployed and continues to see extensions being defined.

The current aims of the working group include the following:

- Provide SDP signaling support for the Interactive Connectivity Establishment (ICE) protocol and its extensions. These were originally defined in MMUSIC, but are now handled by the ICE WG.
- To support the establishment of multi-party multimedia sessions for RTCWEB based implementations, MMUSIC provides SDP signaling support for a number of extensions required by RTCWEB. The MMUSIC WG will seek a balanced trade-off between general applicability of such extensions versus RTCWEB specific usage.
- Various other extensions to SDP may be pursued to remedy the most urgent of SDP's shortcomings. These include updates to the SDP specification itself and missing IANA registrations.
- With the exception of the items listed above, only extensions within the existing SDP framework will be done.
- Maintain the specification of the (revised) Real Time Streaming Protocol (RTSP) as needed.

The MMUSIC work items will be pursued in close coordination with other IETF WGs including AVTCORE, CLUE, ICE, RTCWEB and SIPCORE, as well as others where appropriate.

MMUSIC Milestone Updates

- Jun 2016 Using the SDP Offer/Answer Mechanism for DTLS
draft-ietf-mmusic-dtls-sdp-00
- Jan 2016 Submit Using Simulcast in SDP and RTP Sessions as Proposed Standard
draft-ietf-mmusic-sdp-simulcast-02
- Mar 2016 Submit MSRP over Data Channels as Proposed Standard
draft-ietf-mmusic-msrp-usage-data-channel-02
- Dec 2015 Submit SDP Negotiation of DataChannel sub-protocols as Proposed Standard
draft-ietf-mmusic-data-channel-sdpneg-05
- Nov 2015 Submit IANA registrations of SDP 'proto' attribute for transporting RTP Media over TCP under various RTP profiles as Proposed Standard
draft-ietf-mmusic-proto-iana-registration-02
- Feb 2016 Submit ICE with SDP Offer/Answer and SIP as Proposed Standard
draft-ietf-mmusic-ice-sip-sdp
- Mar 2016 Submit revised SDP specification to IETF as Proposed Standard
draft-ietf-mmusic-rfc4566bis
- Feb 2016 Submit SIP usage for Trickle ICE as Proposed Standard
draft-ietf-mmusic-trickle-ice-sip
- Jan 2016 Submit SCTP-Based Media Transport in SDP as Proposed Standard.
draft-ietf-mmusic-sctp-sdp
- Nov 2015 Submit SDP extensions to negotiate multiplexed media streams as Proposed Standard
draft-ietf-mmusic-sdp-bundle-negotiation
- Nov 2015 Submit a framework for SDP attributes when multiplexing as Proposed Standard
draft-ietf-mmusic-sdp-mux-attributes
- Nov 2015 Submit SDP extension for cross session stream identification as Proposed Standard
draft-ietf-mmusic-msid

Simulcast Virtual Interim

- We had a virtual interim meeting focusing on simulcast (October 13, 2015):
 - W3C has a dependency on the simulcast work for the upcoming WebRTC 1.0, and MMUSIC itself has a milestone for the simulcast work in January (2016)
- Main drafts discussed:
 - draft-ietf-mmusic-sdp-simulcast-02.txt
 - draft-pthatcher-mmusic-rid-00.txt
- Meeting Minutes at <https://www.ietf.org/proceedings/interim/2015/10/13/mmusic/minutes/minutes-interim-2015-mmusic-1>

WG status (1)

- Published RFCs:
 - RFC 7604 (RTSP NAT Evaluation)
- In RFC Editor Queue:
 - draft-ietf-mmusic-rfc2326bis-40 [downgrading ref]
 - draft-ietf-mmusic-rtsp-nat-22 [waiting ref]
- Ready for IESG Review:
 - draft-ietf-mmusic-msid-11
 - draft-ietf-mmusic-proto-iana-registration-02
 - draft-ietf-mmusic-sdp-bundle-negotiation-23 (well, almost)
 - draft-ietf-mmusic-sdp-mux-attributes-10
- In IETF Last Call: <none>
- Publication requested: <none>

WG status (2)

- WGLC: <none>
- Getting Ready for WGLC:
 - draft-ietf-mmusic-simulcast-03 (?)
- New work Items:
 - RTP Payload Constraints
 - draft-pthatcher-mmusic-rid-02

WG status (3)

- Other WG drafts not on the agenda or already covered:
 - draft-ietf-mmusic-data-channel-sdpneg-06
 - draft-ietf-mmusic-ice-sip-sdp-07
 - draft-ietf-mmusic-msrp-usage-data-channel-02
 - draft-ietf-mmusic-rfc4566bis-15
 - -16 update missed submission deadline
 - draft-ietf-mmusic-sctp-sdp-15
 - draft-ietf-mmusic-trickle-ice-sip-03
- SDP Directorate and Designated Expert reviews:
 - 3GPP TS 26.114