RTP Media Congestion Avoidance Techniques (rmcat)

Chairs:
Anna Brunstrom <anna.brunstrom@kau.se>
Colin Perkins <csp@csperkins.org>
Martin Stiemerling <mls.ietf@gmail.com>
Note Well

Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:

- The IETF plenary session
- The IESG, or any member thereof on behalf of the IESG
- Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
- Any IETF working group or portion thereof
- Any Birds of a Feather (BOF) session
- The IAB or any member thereof on behalf of the IAB
- The RFC Editor or the Internet-Drafts function

All IETF Contributions are subject to the rules of RFC 5378 and RFC 8179.

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult RFC 5378 and RFC 8179 for details.

A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.

A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.
Administrativa

Today’s slides

https://datatracker.ietf.org/meeting/99/materials.html#rmcat

Remote participation

Meetecho: http://www.meetecho.com/ietf99/rmcat

Jabber chat

xmpp:rmcat@jabber.ietf.org?join

Minute taker and jabber scribe?

Mailing list

http://www.ietf.org/mailman/listinfo/rmcat
Agenda

1. Administrativa -- chairs
2. WG status -- chairs
3. RMCAT feedback design team status update -- Sarker/Perkins
4. Next steps for the RMCAT WG -- chairs
WG Document Status

Algorithm candidates & Co

- draft-ietf-rmcat-coupled-cc-06
  - submitted to IESG
- draft-ietf-rmcat-sbd-08 [updated]
  - in write up
- draft-ietf-rmcat-scream-cc-09 [updated]
  - ready for IESG submission
- draft-ietf-rmcat-nada-04
  - past WGLC, author update needed
- draft-ietf-rmcat-gcc-02
  - waiting for author update
WG Document Status

Requirements

• draft-ietf-rmcat-cc-requirements-09 [RFC Ed Queue: MISSREF]

Evaluation

• draft-ietf-rmcat-eval-test-05
  • ready for WGLC
• draft-ietf-rmcat-eval-criteria-06 [expired]
  • choice of TCP model
• draft-ietf-rmcat-wireless-tests-03
  • no open issues, reviews and implementation experience needed
• draft-ietf-rmcat-video-traffic-model-02 [updated]
  • ready for review, close to WGLC
WG Document Status

Interfaces
• draft-ietf-rmcat-cc-codec-interactions-02 [expired]
• draft-zhu-rmcat-framework-00 [expired] (individual draft)
  • To be covered later during meeting

Feedback
• draft-ietf-rmcat-rtp-cc-feedback-03 [expired]
• draft-dt-rmcat-feedback-message-03 [updated] (individual draft)
  • On the agenda for meeting
Milestones

- **Done** Adopt first WG draft on requirements
- **Done** Adopt first WG draft on evaluation criteria
- **Done** Adopt first WG draft of RTCP extensions for use with congestion control algorithms and interactions between applications and RTP flows (if needed)
- **Done** Adopt first congestion control candidate as WG draft
- **Done** Adopt first WG draft on identifying and controlling groups of flows

- **Jul 2017** Submit identifying and controlling groups of flows to IESG for Experimental publication
- **Jul 2017** Submit first congestion control candidate to IESG for Experimental publication
- **Aug 2017** Submit requirements and evaluation criteria to IESG as Informational
- **Aug 2017** Submit RTCP extension requirements for use with congestion control algorithms to AVTCORE (if needed)
- **Mar 2018** Submit interactions between applications and RTP flows to IESG as Informational
- **Mar 2018** Publish first draft of evaluation results
- **Mar 2018** Publish first draft of Standards Track congestion control algorithm
- **Mar 2018** Publish first draft of techniques to detect, instrument or diagnose failing to meet RT schedules
- **Jul 2018** Submit techniques to detect, instrument or diagnose failing to meet RT schedules to IESG as Informational
- **Nov 2018** Submit congestion control to IESG for Proposed Standard
Agenda

1. Administrativa -- chairs
2. WG status -- chairs
3. RMCAT feedback design team status update  -- Sarker/Perkins
4. Next steps for the RMCAT WG  -- chairs
Interactions between applications and RTP flows

Mar 2018  Submit interactions between applications and RTP flows to IESG as Informational

Related drafts
• draft-ietf-rmcat-cc-codec-interactions-02  [expired]
• draft-zhu-rmcat-framework-00 [expired] (individual draft)
• draft-ietf-rmcat-app-interaction-01
How do we evaluate the candidate algorithms to progress them towards standards track?

Mar 2018  Publish first draft of evaluation results
Mar 2018  Publish first draft of Standards Track congestion control algorithm
Mar 2018  Publish first draft of techniques to detect, instrument or diagnose failing to meet RT schedules

Starting points
• Evaluation drafts
• Issues identified in candidate algorithm drafts
• Deployment experience
• ns3-rmcat open source module from Cisco