

RTP Media Congestion Avoidance Techniques (rmcat)

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Administrativa

Today's slides

<http://datatracker.ietf.org/meeting/90/materials.html#session.group-rmcat>

Remote participation

<http://www.ietf.org/meeting/90/remote-participation.html>

Jabber chat

xmpp:rmcat@jabber.ietf.org?join

Mailing list

<http://www.ietf.org/mailman/listinfo/rmcat>

WG Status

WG documents

draft-ietf-rmcat-cc-requirements-07 **[updated]**

draft-ietf-rmcat-app-interaction-01 **[feedback needed!]**

draft-ietf-rmcat-eval-criteria-02

draft-ietf-rmcat-eval-test-00

draft-ietf-rmcat-rtp-cc-feedback-00

Drafts

draft-hayes-rmcat-sbd-01 **[new]**

draft-welzl-rmcat-coupled-cc-04

draft-sarker-rmcat-cellular-eval-test-cases-01

draft-zhu-rmcat-video-traffic-source-00 **[new]**

Algorithm candidates

draft-johansson-rmcat-scream-cc-03 **[updated]**

draft-singh-rmcat-adaptive-fec-01 **[updated]**

draft-zhu-rmcat-nada-04 **[updated]**

draft-alvestrand-rmcat-congestion-02 [expired]

draft-ohanlon-rmcat-dflow-02 [expired]

Milestone Update

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)

Dec 2014 Adopt first congestion control candidate as WG draft

Mar 2015 Submit requirements and evaluation criteria to IESG as Informational

Mar 2015 Adopt first WG draft on identifying and controlling groups of flows

Jun 2015 Submit identifying and controlling groups of flows to IESG for Standards Track publication

Jun 2015 Submit first congestion control candidate to IESG for Experimental publication

Jun 2015 Submit interactions between applications and RTP flows to IESG as Informational

Jun 2015 Submit RTCP extension requirements for use with congestion control algorithms to AVTCORE (if needed)

Sep 2015 Publish first draft of evaluation results

Sep 2015 Publish first draft of Standards Track congestion control algorithm

Sep 2015 Publish first draft of techniques to detect, instrument or diagnose failing to meet RT schedules

Mar 2016 Submit techniques to detect, instrument or diagnose failing to meet RT schedules to IESG as Informational

May 2016 Submit congestion control to IESG for Proposed Standard



order changed

draft-ietf-rmcat-cc-requirements-07

- Zahed Sarker added as editor - **thanks!**
- 4 updates since WGLC (-08 submitted yesterday)
 - Jitter definition
 - Added section on deficiencies of existing mechanisms (TFRC)
 - Circuit breaker recommendation
 - Few editorial changes
- Next
 - Scheduled on next telechat for IESG publication

Interim Sunday Nov 9 (1)

Discussing on algorithm updates and evaluation results

draft-singh-rmcat-adaptive-fec-01

- Interest of other schemes to adopt this if it would help to address a remaining problem

draft-zhu-rmcat-nada-04

- Updated to address co-existence with loss-based (TCP) traffic
- Evaluation based on initial evaluation scenarios; not tested with non-ideal video traffic and network condition (jitter/wireless)
- Further discussion on parameter range and stability needed
- Solid basis for adaption as working group item?

Interim Sunday Nov 9 (2)

draft-johansson-rmcat-scream-cc-03

- Algorithm extensions to address wireless scenario and adaptive video coding
- Discussion on having frame dropping as functionality of decoder with appropriate transport interface
- Evaluation based on evaluation scenarios; tested with ideal as well as non-ideal video, tested in wireless scenario
- Split of document in Congestion Control and congestion-app-interaction elements/framework should be considered
- Possible adoption after clean-up

Agenda

9:00 WG Status (*Chairs*)

9:15 Evaluating Congestion Control for Interactive Real-time Media (*Varun Singh*)
[draft-ietf-rmcat-eval-criteria-02](#)

9:35 W3C Constraints API for WebRTC (*Varun Singh*)

9:45 RMCAT Application Interaction (*Mo Zanaty*)
[draft-ietf-rmcat-app-interaction-00](#)

10:00 Modeling Video Traffic Sources for RMCAT Evaluations (*Xiaoqing Zhu*)
[draft-zhu-rmcat-video-traffic-source-00](#)

10:15 Shared Bottleneck Detection for Coupled Congestion Control for RTP Media
(*David Hayes*)
[draft-hayes-rmcat-sbd-00](#)

11:00 Coupled congestion control for RTP media (*Michael Welzl*)
[draft-welzl-rmcat-coupled-cc-04](#)