

RTP Media Congestion Avoidance Techniques (rmcat)

Chairs: Lars Eggert <lars@netapp.com>,
Mirja Kuehlewind <mkuehle@ikr.uni-stuttgart.de>

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Administrativa

Today' s slides

<http://datatracker.ietf.org/meeting/88/materials.html#session.group-rmcat>

Remote participation

<http://www.ietf.org/meeting/88/remote-participation.html>

Jabber chat

xmpp:rmcat@jabber.ietf.org?join

Mailing list

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

Agenda

- 13:00 Administrativa & WG Overview (*Chairs*)
- 13:10 Evaluating Congestion Control for Interactive Real-time Media (*Varun Singh*)
draft-singh-rmcat-cc-eval (milestone eval-criteria)
- 13:35 RMCAT Video Quality Evaluation and Double Bottleneck Test Scenario
(*Geert Van der Auwera*)
draft-vanderauwera-rmcat-video-quality (milestone eval-criteria)
- 13:55 Video Source Model used for NADA (*Michael Ramalho*)
- 14:05 Update on coupled congestion control for RTP media (*Michael Welzl*)
draft-welzl-rmcat-coupled-cc (milestone group-cc)
- 14:35 Initial Results for Google's congestion control (*Varun Singh*)
- IF TIME PERMITS
 Overview on Mechanisms for Preferential Packet Dropping (*Toerless Eckert*)

WG Status

WG documents

draft-ietf-rmcat-cc-requirements-00 → Reviews needed!

Drafts

In charter

draft-singh-rmcat-cc-eval-04 [**recently updated**] → Call for WG Adoption?

draft-vanderauwera-rmcat-video-quality-00 [**new**]

draft-welzl-rmcat-coupled-cc-01 [**recently updated**]

Algorithms

draft-alvestrand-rmcat-congestion-01

draft-ohanlon-rmcat-dflow-02

draft-zhu-rmcat-nada-02

Add-ons

draft-alvestrand-rmcat-remb-03 [**recently updated**]

draft-perkins-rmcat-rtp-cc-feedback-00 [**expired**]

Bibliography

- Google's congestion control:
 - L. De Cicco et al.: Experimental Investigation of the Google Congestion Control for Real-Time Flows.
 - V. Singh et al.: Performance Analysis of Receive-Side Real-Time Congestion Control for WebRTC.
 - L. De Cicco et al.: Understanding the Dynamic Behaviour of the Google Congestion Control
- NADA
 - X. Zhu, R. Pan: NADA: A Unified Congestion Control Scheme for Low-Latency Interactive
- DFlow
 - P. O'Hanlon, K. Carlberg: DFlow: Low latency congestion control
- Coupled Congestion Control
 - S. Islam et al.: One Control to Rule Them All - Coupled Congestion Control for RTP Media (Poster)
- Congestion Control and FEC
 - M. Nagy et al.: Congestion Control using FEC for Conversational Multimedia Communication (Nokia may have IPR)

Others

- tsvarea (Thu): Latency workshop report (Mat Ford)
<http://www.internetsociety.org/latency2013>
- tsvwg (Fri)
 - Framework for Signaling Flow Characteristics (draft-eckert-intarea-flow-metadata-framework)
 - Normalization Marker for AF PHB Group (draft-lai-tsvwg-normalizer)
 - DS and RTCweb (draft-dhesikan-tsvwg-rtcweb-qos)
- ICCRG (was Tue): Sprout evaluation (Zahed Sarker)

Eval Design Team

- One call since last IETF meeting
- Update of draft-singh-rmcat-cc-eval
including initial scenario description in appendix
- Evaluations Scenarios in Wiki
<https://sites.google.com/site/ietfrmcatsolutionevaluations/>
- New draft
draft-vanderauwera-rmcat-video-quality-00
- Meeting on RMCAT traffic model
was Sunday, Nov 3

Next Milestone: app-interactions

Charter title	Interactions between applications and RTP flows
Intended status	Informational RFC
Goals	Adopt ?, Submit May 2014

Identify interactions between applications and RTP flows to enable conveying helpful cross-layer information such as per-packet priorities, flow elasticity, etc. This information might be used to populate an API, but the WG will not define a specific API itself.

→ Is someone working on this? Do we need this?