RTP Media Congestion Avoidance Techniques (rmcat)

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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  Administrative & 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:
  – 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/ietfrmcatsolutionsolutionevaluations/

• New draft
  draft-vanderauwera-rmcat-video-quality-00
• Meeting on RMCAT traffic model
  was Sunday, Nov 3
Next Milestone: app-interactions

<table>
<thead>
<tr>
<th>Charter title</th>
<th>Interactions between applications and RTP flows</th>
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<tr>
<td>Intended status</td>
<td>Informational RFC</td>
</tr>
<tr>
<td>Goals</td>
<td>Adopt ?, Submit May 2014</td>
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</tbody>
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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?