

App Interaction - IETF 96 - Berlin

- draft-ietf-rmcat-app-interation was split into 3 separate drafts, per IETF 92 decision
 - CC-application interaction (e.g. W3C API)
 - CC-codec interaction
 - draft-ietf-rmcat-cc-codec-interactions-02
 - CC framework of solution candidates
 - draft-zhu-rmcat-framework-00
- draft-ietf-rmcat-cc-codec-interactions-02
 - Allowed Rate is the primary interaction
 - Most other interactions removed, and more may be removed following review of the new framework draft.

draft-ietf-rmcat-coupled-cc-02

- *-01, presented at IETF95:*
 - *Applied coupled-cc to both NADA and GCC and added text on how to apply the algorithm*
 - *Updated the variable names to make it inline with the recent NADA and GCC drafts*
 - *Marked passive version as highly experimental & moved it to appendix*
 - *Connection to the prioritization text in [I-D.ietf-rtcweb-transports]*

→ We answered to a WG chair query on March 22nd that we think this is ready for WGLC.

- *-02, submitted after IETF95:*
 - *“keep-alive” update with cosmetics (mainly references)*

Shared Bottleneck Detection for Coupled Congestion Control for RTP Media

draft-ietf-rmcat-sbd-04

David Hayes (SRL), Simone Ferlin (SRL), **Michael Welzl (UiO)**, and
Kristian Hiorth (UiO)

- No changes since IETF'95
- Feedback provided according to draft-dt-rmcat-feedback-message-00 and draft-ietf-rmcat-rtp-cc-feedback-01 seems fine (no changes to the SBD draft are required)
- We think the document is ready for working group last call

simula

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RMCAT Eval Criteria

- Jitter model updated
- Do we need, any of the following:
 - **Loss model?**
 - **Background UDP?**

draft-ietf-rmcat-wireless-tests

- No updates
- Ready for a formal wg review

draft-ietf-rmcat-eval-
test-03

Updates and issues

- No updates since last meeting
- Ingemar raised issues with test case 5.7 Media flow competing with short TCP flow
 - Confusion on the short TCP model
 - Both eval-test and eval-criteria defines TCP model
 - The current short TCP model in eval-test appears as long TCP model capturing all the available capacity leaving no room for media flow.
 - Mainly due to bigger download object size
 - The short TCP model in eval-criteria still results in bursty transmission which saturates the link capacity

What should we do?

- The test case describes the short flow might appear to be as long flow.
- However, we have a separate test case on competing long TCP flow, hence there is very little incentive in having a short TCP flow model to be appeared as long TCP flow.
- How should we model the short TCP flow?
 - We tried to get traces from browser vendors, we end up only getting reference to HTTPArchive.
 - From there we took the object size in the eval-criteria.
- We should not engineer the test case to make the media congestion control look better but the model should be realistic.



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Updates on draft-ietf-rmcat-gcc-02

Stefan Holmer, Google

Luca De Cicco, Gaetano Carlucci, Saverio Mascolo, Politecnico di Bari

Updates since IETF 95

- Section about the pacing mechanism added
 - Encoded Media is divided in groups of packets.
 - Groups of packets are sent every $\Delta T = 5\text{ms}$.
- Section about pre-filtering added
 - Pre-filtering makes GCC more robust on Wi-Fi networks.
 - Merges groups of packets that arrive in a burst and handles them as one event.
 - Details presented at the ANRW workshop. Slides and paper shared on list.

Future Work

- Add a section about the start-up phase.
- Improve the loss-based controller.
- Possibly consider improvements for mobile networks.