          Evaluating Congestion Control for Interactive Real-time Media
                      draft-folks-rmcat-eval-test-00

Abstract

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   material or to cite them other than as "work in progress."

   This Internet-Draft will expire on July 27, 2014.

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1. Introduction

2. Terminology

   The terminology defined in RTP [RFC3550], RTP Profile for Audio and
   Video Conferences with Minimal Control [RFC3551], RTCP Extended
   Report (XR) [RFC3611], Extended RTP Profile for RTCP-based Feedback
   (RTP/AVPF) [RFC4585] and Support for Reduced-Size RTCP [RFC5506]
   apply.

3. Test cases

4. Network Parameters

5. Media Parameters

6. Security Considerations

   Security issues have not been discussed in this memo.

7. IANA Considerations

   There are no IANA impacts in this memo.

8. Acknowledgements

   Much of this document is derived from previous work on congestion
   control at the IETF.

   The content and concepts within this document are a product of the
   discussion carried out in the Design Team.

9. References

9.1. Normative References

   [RFC3550]   Schulzrinne, H., Casner, S., Frederick, R., and V.
               Jacobson, "RTP: A Transport Protocol for Real-Time
               Applications", STD 64, RFC 3550, July 2003.

   [RFC3551]   Schulzrinne, H. and S. Casner, "RTP Profile for Audio and
               Video Conferences with Minimal Control", STD 65, RFC 3551,
               July 2003.

   [RFC3611]   Friedman, T., Caceres, R., and A. Clark, "RTP Control
               Protocol Extended Reports (RTCP XR)", RFC 3611, November
               2003.

   [RFC4585]   Ott, J., Wenger, S., Sato, N., Burmeister, C., and J. Rey,
               "Extended RTP Profile for Real-time Transport Control
               Protocol (RTCP)-Based Feedback (RTP/AVPF)", RFC 4585, July
               2006.

   [RFC5506]   Johansson, I. and M. Westerlund, "Support for Reduced-Size
               Real-Time Transport Control Protocol (RTCP): Opportunities
               and Consequences", RFC 5506, April 2009.

   [I-D.ietf-rmcat-cc-requirements]
               Jesup, R., "Congestion Control Requirements For RMCAT",
               draft-ietf-rmcat-cc-requirements-00 (work in progress),
               July 2013.

   [I-D.ietf-avtcore-rtp-circuit-breakers]
               Perkins, C. and V. Singh, "RTP Congestion Control: Circuit
               Breakers for Unicast Sessions", draft-ietf-avtcore-rtp-
               circuit-breakers-01 (work in progress), October 2012.

   [I-D.singh-rmcat-cc-eval]
               Singh, V. and J. Ott, "Evaluating Congestion Control for
               Interactive Real-time Media", draft-singh-rmcat-cc-eval-04
               (work in progress), October 2013.

9.2. Informative References

   [RFC5033]   Floyd, S. and M. Allman, "Specifying New Congestion
               Control Algorithms", BCP 133, RFC 5033, August 2007.

   [RFC5166]   Floyd, S., "Metrics for the Evaluation of Congestion
               Control Mechanisms", RFC 5166, March 2008.

   [RFC5681] Allman, M., Paxson, V., and E. Blanton, "TCP Congestion
              Control", RFC 5681, September 2009.

   [SA4-EVAL]
              R1-081955, 3GPP., "LTE Link Level Throughput Data for SA4
              Evaluation Framework", 3GPP R1-081955, 5 2008.

   [SA4-LR]   S4-050560, 3GPP., "Error Patterns for MBMS Streaming over
              UTRAN and GERAN", 3GPP S4-050560, 5 2008.

   [TCP-eval-suite]
              Lachlan, A., Marcondes, C., Floyd, S., Dunn, L., Guillier,
              R., Gang, W., Eggert, L., Ha, S., and I. Rhee, "Towards a
              Common TCP Evaluation Suite", Proc. PFLDnet. 2008, August
              2008.

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