RTP Congestion Control: Circuit Breakers for Unicast Sessions

draft-perkins-avtcore-rtp-circuit-breakers-01

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Status and Open Issues

• Changes in -01:
  • Use simplified TCP throughout equation, based on feedback at IETF 83
  • Assorted editorial clarifications

• Open questions:
  • The RTP/AVPF profile allows more rapid congestion feedback – should we define a more sophisticated circuit breaker for RTP/AVPF sessions?
    • Probably not worth the complexity as a circuit breaker, but likely essential for congestion control
  • RTCP XR blocks can provide more detailed congestion feedback – should the circuit breaker take into account RTCP XR feedback? No
  • ECN feedback can report congestion before packet loss – could a circuit breaker fire based on ECN feedback? Yes – treat ECN-CE marks as loss

• Next steps:
  • Urgently needed by RTCWEB WG – adopt as AVTCORE WG draft?