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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?