Reactions to Signalling from ECN Support for RTP/RTCP

draft-carlberg-tsvwg-ecn-reactions-02

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Background

• RFC 6679 (was draft-ietf-avtcore-ecn-for-rtp-08)
  – Specifies signalling to support ECN for RTP/UDP flows
    • Specification for SDP signalling extensions
    • Define RTP/AVPF ECN feedback packet
    • Defines RTCP eXtended Report (XR) for ECN summary information
  – Specifies default reaction based on congestion control algorithm
    • Note: discussion of algorithm(s) is out-of-scope
    • MAY be other reactions
Comments from IETF83

• Comments from Fairhurst, Briscoe
• Expanded section on real-time congestion control requirements
  • Smoother rate variation: Mainly suits media flow's characteristics
  • Low latency: usable latencies < 150ms [ITU.G114.2003]
  • Burst handling: Ability to handle bursts due to the nature of the media and codec (e.g. I-frames etc)
Further updates

• Updates on 3GPP section
  – Added text on data-limited and idle behaviours from RFC 5348
  – Updated congestion control [TR26.114 Clause B]
• Created new section on TFRC
  – We suggest TFRC is only recommended for ECN response (within latency constraints)
  – But not for loss response due to latency issues
• Updated text on rmcat BoF
Questions/Issues

• Should the Reactions draft avoid singling out a single CC algorithm and only identify a variety of approaches?
• Differentiation from rmcat work?
• Request Working Group adoption of draft
  • Topic is within the charter of TSVWG
  • Foundation and scope of draft is mature, with recent changes reflecting refinements