

Reactions to Signalling from ECN Support for RTP/RTCP

draft-carlberg-tsvwg-ecn-reactions-02

1 August 2012

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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 rmcats BoF

Questions/Issues

- Should the Reactions draft avoid singling out a single CC algorithm and only identify a variety of approaches?
- Differentiation from rmcats 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