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Background

• We want to let the TCP sender react differently to an ECN mark than it does to loss

• The reduction in FlightSize can be less (than with loss) since we know an AQM is on the path, providing a shallow buffer
  – This yields better utilisation with negligible impact on delay

• Some text in RFCs 3168 and 4774 prohibits this. **This limits experimentation.** => an update is proposed in draft-khademi-tsvwg-ecn-response-00

• We propose a beta value for experimentation in draft-khademi-tcpm-alternativebackoff-ecn-00
Timeline

• draft-khademi-alternativebackoff-ecn-00, with simulation + experimental results, was presented in **TCPM, IETF 93**

• Based on recommendations from TCPM chairs, I-D was discussed in ICCRG

• An update (-01) was presented in **TCPM, IETF 94**
  – Some clarifications in the language (e.g. scope, usefulness, practicality)
  – Addressed comments from TCPM and ICCRG ML

• Update to -03 was presented in **TSVWG, IETF 95**
  – E.g. use of FlightSize instead of cwnd

• Based on AD recommendations, -03 was replaced by:
  1. *draft-khademi-tsvwg-ecn-response-00* (updating RFC3168 and RFC4774)
  2. *draft-khademi-tcpm-alternativebackoff-ecn-00* (Experimental, proposing a concrete backoff behaviour)
draft-khademi-tcpm-alternativebackoff-ecn-00

- *draft-khademi-tsvwg-ecn-response-00* relaxes the ECN-mark reaction to be different than with loss.

- *draft-khademi-tcpm-alternativebackoff-ecn-00* RECOMMENDS that experimental deployments multiply the FlightSize by 0.8 and reduce the slow start threshold 'ssthresh' in Congestion Avoidance in response to reception of a TCP segment that sets the ECN-Echo flag.

- Choice of ABE multiplier based on the results in:
Question

Adopt in TCPM, if draft-khademi-tsvwg-ecn-response-00 is adopted in TSVWG?