## RTCP feedback for Congestion Control

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## Design Team Goal

"The RTP Media Congestion Avoidance Techniques (RMCAT) Working Group formed a design team to analyze feedback requirements from various congestion control algorithms and to design a generic feedback message to help ensure interoperability across those algorithms. The feedback message is designed for a sender-based congestion control, which means the receiver of the media will send necessary feedback to the sender of the media to perform the congestion control at the sender."

## Required feedback information

- Packet level information block
  - Packet Identifier RTP sequence number.
  - Packet Arrival Time Arrival time stamp at the receiver of the media.
  - Packet ECN marking If ECN [RFC3168] is used, it is necessary to report on the 2-bit ECN mark in received packets, indicating for each packet whether it is marked not-ECT, ECT(0), ECT(1), or ECN-CE.
  - The feedback messages can have one or more of the above information blocks.
- For RTCP based feedback message the packet information block will be grouped by Synchronization Source (SSRC) identifier.
- It needs a new signaling format for sender based congestion control.
  - As RTCP XR block when reported with RTCP SR/RR
  - As RTCP/AVPF feedback message when reported more frequently than regular RTCP report.

## Contribute

- The design team has documented the progress and findings in a draft
  - https://www.ietf.org/internet-drafts/draft-dt-rmcatfeedback-message-00.txt
- The draft is also available in github
  - https://github.com/zaheduzzaman/rmcat-feedbackmessage
- Send comments in the rmcat mailing list
- Join the design team.