

# Use of RTCP XR in WebRTC

draft-ietf-rtcweb-rtp-usage-06

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# Open Issue: RTCP XR

- The question is if any RTCP XR metrics should be mandated or recommended to be implemented in WebRTC end-points?
  - draft-huang-rtcweb-monitoring-00 proposes various RTCP XR blocks SHOULD be implemented; similar proposals made recently on the list – make performance monitoring data available in the media path
  - W3C WebRTC stats API exposes various performance monitoring data to Javascript – can send to the web server or via the data channel
  - Does the group see a need to provide additional performance monitoring data in the media path? What are the use cases?
  - If we want media path statistics beyond regular RTCP RR, what RTCP XR blocks ought to be required?

# Open Issue: Congestion Feedback

- The RMCAT WG is developing congestion control for RTP media
  - Initial implementations of WebRTC will likely ship before the output of RMCAT is finalised
  - Likely that pre-standard implementations will be deployed, then updated
- What feedback do pre-RMCAT congestion control algorithms need?
  - RTCP SR/RR
  - RTP/AVPF codec control TMMBR message
  - RTP/AVPF NACK message (currently optional for receivers to support)
  - RFC 5450 transmission time offset RTP header extension?
  - Are any RTCP XR reports needed for additional congestion feedback?

# Proposals

- For RTCP XR:
  - Use of RTCP XR blocks SHOULD be signalled
  - Implementations MUST support reception of RTCP XR blocks but MAY ignore non-signalled packets
    - Robustness – want to allow graceful extension
  - No RTCP XR blocks are mandated for use at this time
- For congestion control
  - Should transmission time offset header extension be required?