

Considerations for Selecting RTCP Extended Report (XR) Metrics for the RTCWEB Statistics API

draft-huang-xrblock-rtcweb-rtcp-xr-metrics-03
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Motivation

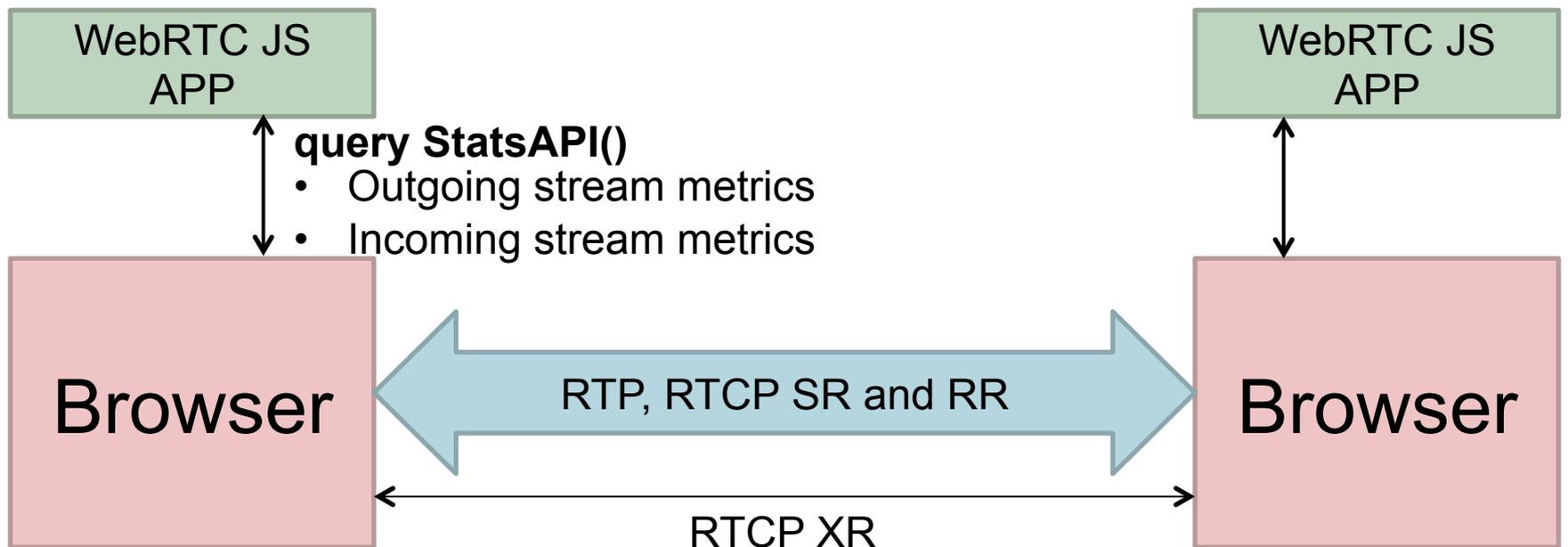
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[ietf-rtcweb-use-cases-and-requirements](#)

The browser must be able to collect statistics, related to the transport of audio and video between peers, needed to estimate quality of experience.

- W3C StatsAPI points to a stats-registry
 - [alvestrand-rtcweb-stats-registry](#)

Interaction of W3C StatsAPI() and XR Block



Browsers independently measure metrics for the **outgoing** and **incoming** streams

Changes in -02

- Re-classify metrics into usage
 - Network Impact Metrics
 - Recovery metrics
 - Application Impact Metrics

Network Impact Metrics

- Sent, received, discarded bytes or octets
 - Goodput = received-discarded
- Sent, Received Packet Count Metric
- Loss, Discard Packet Count Metric
- Burst Metric for Loss and Discard
- ECN related Metrics
- RLE for Loss and Discards

Application Impact Metrics

- Loss and Discard Packet Count Metric
- Burst Metric for Loss and Discard
- Frame Impairment Summary Metrics
- Jitter buffer

Recovery Metrics

- Retransmitted and Post-repair count
 - Repaired packets \leq Retx packets
 - Repaired in time?

Next Steps

- Are we missing something?
- Feedback on the list is appreciated
- ...