WebRTC Additional Stats

draft-singh-xrblock-webrtc-additional-stats-01
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Motivation

F38

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

ietf-rtcweb-use-cases-and-requirements

- Based on
  - huang-xrblock-rtcweb-rtcp-xr-metrics
  - alvestrand-rtcweb-stats-registry

Operation

- WebRTC Application at the receiver
  - **queries** the stats for the **incoming (remote) RTP stream**.

- If corresponding RTCP XRs are implemented,
  - the endpoint **queries** both **incoming** and **outgoing** RTP streams

Additional Stats (1/3)

- *SentPacketCount*
- *ReceivedPacketCount*
- *PacketsLost*

`alvestrand-rtcweb-stats-registry`

- **PacketsDiscarded**
- **PacketsRetx**
- **PacketsRepaired**

All identifiers are cumulative metrics

Additional Stats (2/3)

- *SentOctetCount*
- *RecevedOctetCount*

  `alvestrand-rtcweb-stats-registry`

- **OctetsDiscarded**

All identifiers are cumulative metrics

Additional Stats (3/3)

- **FullFramesLostCount**
- **PartialFramesLostCount**
- **FramesDiscardedCount**

Defined in `RFC7004`

All identifiers are cumulative metrics

Next Steps

- Already sent proposal to `public-webrtc` and `rtcweb` WG
  - Need reviews

- How to proceed?