

Identifiers for WebRTC's statistics API

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Varun Singh
Harald Alvestrand

What

- Extends the identifiers reported in the **getStats()** API

(Was documented in the W3C wiki, mailing list discussions)

Current status

- First Public Working Draft published
- <http://www.w3.org/TR/2014/WD-webrtc-stats-20141021>

RTCStatsType

needs to be updated in **webrtc-pc**?

- "inboundrtp",
- "outboundrtp",
- "session",
- "track",
- "transport",
- "candidatepair",
- "localcandidate",
- "remotecandidate"

stats dictionaries

- RTCRTPStreamStats
 - RTCInboundRTPStreamStats
 - RTCOutboundRTPStreamStats
- RTCCodec
- RTCPeerConnectionStats (datachannel opened/closed)
- RTCMediaStreamTrackStats
- RTCDataChannelStats
- RTCTransportStats
- RTCIceCandidateAttributes
- RTCIceCandidatePairStats
- RTCCertificateStats

Open issues (1/3)

RTCInboundRTPStreamStats

- Reports RR variables, but not **fractionLost** (add/remove)

Possible additional metrics

- packetsDiscarded?
- packetsRepaired?

Open issues (2/3)

RTCDataChannelStats:

- bytesSent / bytesReceived
 - Represents the total number of bytes sent/received on this PeerConnection.
 - in RTP this is the size of the payload and not including the header.
 - clarify if these are just the size of the
 - payload, or
 - payload and the packet headers

Open issues (3/3)

```
dictionary RTCCodec : RTCStats {  
    unsigned long payloadType;  
    DOMString    codec; // e.g., video/vp8  
    unsigned long clockRate; ==> sampleRate?  
    unsigned long channels;  
    DOMString    parameters;  
};
```

replace “DOMString codec;” with

```
DOMString kind; // enum? e.g., video  
DOMString name; // e.g. PCMU
```


Next Steps

- Are we missing any metrics?
- More metrics defined in IETF (XRBLOCK/IPPM)
<https://tools.ietf.org/html/draft-ietf-xrblock-rtcweb-rtcp-xr-metrics>

References

- GitHub URL: <http://w3c.github.io/webRTC-stats/>