WebRTC Statistic Identifiers

Varun Singh, Harald Alvestrand

Updates

Two updates since TPAC 2014

- Feb 2015
- October 2015
  - Added RTCRTPStreamStats.mediaType

- Thanks to contributors.

Open Issues (1/7)

#5 RTCStatsType out of sync with webrtc-pc

- The hyphen in "inbound-rtp" and "outbound-rtp" should be removed.
- Suggest moving 8.5 RTCStats Dictionary to webrtc-stats
- Keep examples and list of mandatory to implement metrics.

Open Issues (2/7)

#7 Need to be clear what happens when a track ends or is disconnected

- https://github.com/w3c/webrtc-stats/pull/8

- Stop reporting on the track?
- Report as normal with a value showing clearly what its state is (ended, disconnected or both).

Open Issues (3/7)

#11 Naming inconsistency

- Jan-Ivar suggests that all RTCStats dictionaries should have names ending in "Stats". Suggest accepting this, and documenting the principle in the document.
    - RTCCodec -> RTCCodec**InfoStats** or RTCCodec**Stats**
    - RTCIceCandidateAttributes -> RTCIceCandidateAttribute**InfoStats** or RTCIceCandidateAttribute**Stats**
    - RTCCertificateStats -> RTCCertificate**Info**Stats

Open Issues (4/7)

#12 serverUrl for RTCIceCandidate? ()

- Suggest adding the addressSourceUrl stat.
- Already in spec

addressSourceUrl of type DOMString,
The URL of the TURN or STUN server indicated in the RTCIceServers that translated this IP address.

Open Issues (5/7)

#13 Bitrate should have a definition ()

- Suggest using the definition of TIAS from RFC 3890.
- unit is: bits per second
- measurement interval: 1 second

Open Issues (6/7)

#16 Codec should have implementation info ()

Name: implementationName
Value: DOMString
Description: An implementation-specific identifier for the codec in use. This will be the encoder for outgoing streams, and the decoder for incoming streams; they may be different.

- Suggest adding this as a new attribute to the RTCCodec dictionary.

Open Issue (7/7)

What to do when a function/metric is not supported or measured?

- missing
- 0
- -1

- prefer **missing.**

Add new metrics (1/2)

Open issue in the document.

packetsDiscarded.
packetsRepaired.

- implemented by FF, not by Chrome.
  - not necessarily MTI, not needed for webrtc-pc.
- keep or remove in webrtc-stats?

Add new metrics (2/2)

- webrtc-pc will keep a list of mandatory metrics
- webrtc-stats can stay a living document
    - Process for adding new metrics into this document?