QUIC related protocols analyzers

IETF114 Side meeting feedback

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QUIC related protocols analyzers

- Given the growth of the use of QUIC and related protocols, such as MPQUIC, Multicast QUIC, MASQUE and any MASQUE variant etc,

- There may be a broader benefit in accelerating convergence and development of open network analyzers usable for these protocols.

- The side meeting was intended to explore opportunities for facilitating this convergence and identify ways for ease collaboration

QUIC related protocols

o QUIC extensions

o Multicast QUIC

o Multipath QUIC

o Masque connect-ip

o Masque connect-udp

o Masque capsule

o …

Qlog tool status

- HTTP3
- QUIC Transport

Wireshark

- HTTP3 in progress;
- QUIC Transport;
- Many extensions

See:

https://github.com/quicwg/base-drafts/wiki/Tools#wireshark

https://github.com/wireshark/wireshark/blob/master/epan/dissectors/packet-quic.c

Discussions

- Requirement to have an analyser that support several of these protocols at the same time

- How the works on related protocols can be //

- Use Qlog hackathon resource to share data ?

- Wireshark support

Summary

- It was a first exchange

- we didn't reach any consensus

- We may need a dedicated ml to organize the works on open source tools

Annex: side meeting agenda

WEDNESDAY 27 JULY
Room: Philadelphia South - Wednesday ¶

Agenda proposal:
- Recall qlog, wireshark works at hackathon (ideally from the guys of the hackathon tables)
- Their scope wrt to decoding network services below
  - Masque connect-ip;
  - Masque connect-udp
  - Multicast QUIC;
  - HTTP3;
  - Multipath QUIC
  - Masque capsule
  - …

- Discuss how the works can be //
- Get a ml to continue to organize
- use hackathon resource to share data ?
- AoB

| 12:00-13:30 | Analysis tools for new transports | TSV | emile.stephan@… | Discuss efforts in wireshark, qlog etc, in relation to masque, mpquic etc. | | |