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

- QUIC extensions
- Multicast QUIC
- Multipath QUIC
- Masque connect-ip
- Masque connect-udp
- Masque capsule
- ...

Qlog and wireshark tools status

Qlog supports
   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
Side meeting 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
Beyond the side meeting

Establish a design team with the goal of developing requirements for a common use - publicly available - protocol analyzer for QUIC and Masque:

- Study qlog schema + *events applicability to *quic
- Study qlog schema applicability to Masque*
- Developing requirements

Start with a ml ?
open-source tools applicable to Masque

- Example Openbach
  - https://github.com/CNES/openbach-extra/search?q=quic&type=new
  - Evaluating BDP FRAME extension for QUIC
    https://oatao.univ-toulouse.fr/28649/1/Kuhn_28649.pdf