MoQ Transport

moq-transport

MoQ WG, San Francisco, July 2023

Welcome!
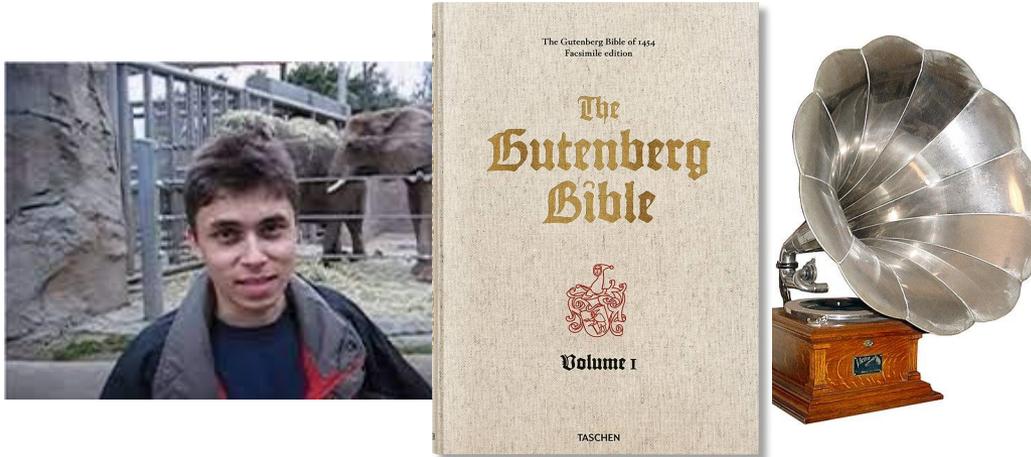
Issue Summary

~~76~~ 78 Open Issues

15 Marked Architectural
    More likely are and haven't been tagged

Created a new 'Naming' tag, please use it for pure naming

Some just need a PR, if so, feel free to write one
    Or tag with "Needs PR" and I will

Some are quite old and need to be updated, closed, etc

Github workflow

Issues can always be reopened, ideally with new information

Please try to keep issues as 'Editorial' or 'Design'
     Create a separate issue if needed
     Please try to be specific about the problem to be solved

Some issues today are 'Proposals'
     I prefer discussing proposals on Issues -> PR?
     Issue -> PR instead of *Issue -> Proposal -> PR*

Any other suggestions or thoughts?

RFC8874 discusses GitHub Usage Guidance

Some issues possibly out of scope for transport?

- Slice as a segment ([#57](#))
  - Independent slices should be supported, anything special?
- Relay Modifying Payload ([#216](#))
  - Transport protocols deliver data
- Failover when QUIC is not available ([#88](#))
  - Do we need an editorial PR?
- Muxing Multiple Broadcasts ([#87](#))

Created a new **NotTransport** tag and Will can triage those

Who chooses Track ID? ([#145](#))

SUBSCRIBE_OK includes a mapping:

Track ID (int) -> Track Name (string)

However, received OBJECTs will be undecodable until receipt of SUBSCRIBE_OK (ex. delayed due to packet loss)

Proposal: Move it from SUBSCRIBE_OK to SUBSCRIBE

Split Control and Data Streams ([#138](#), [#137](#),[#105](#))

QUIC streams are HoL blocking, which can be a feature

If all Control messages are over a single stream,
    ordering is well defined

Putting data of different priorities on a single stream
    Defeats efforts to utilize QUIC's lack of HoL blocking
    But draft is agnostic on stream usage

Streaming Format Negotiation ([#208](#))

Proposal (thanks vasilvv@):

1. Every catalog format has a pre-defined well-known catalog track name (e.g. `warp-catalog`, `loc-catalog`, etc)
2. Extend SUBSCRIBE message so that it can accept multiple track names, and only subscribe to the first one that exists.

Clean Subscribe Termination ([#222](#))

No FIN functionality

- Reset w/no error?
- New frame?
- Catalog update?

SUBSCRIBE ambiguity ([#204](#))

Prefixes vs Exact Match

Other Issues?