



# MoQ Transport Issues

[Moq-transport](#)

IETF 120 in Vancouver, July 2024

# Should missing Objects be required? [#345](#)

Added the ability to specify missing Objects or Groups,  
but didn't require their use

Can cache the fact that an Object is missing

## Pros

- Makes caching easier and more efficient
  - I.e: Victor's example yesterday about caching every other Object
- Can infer any missing information was dropped due to Delivery Timeout/etc.

## Cons

- Consumes bytes on the wire

# No Limit on Subscriptions [#272](#)

SUBSCRIBE sent on the single control stream

No limit on how many subscriptions at once

Options:

1. Add a MAX\_SUBSCRIPTIONS frame and SETUP parameter, similar to QUIC.
2. Open a new bidirectional stream for each Subscription and put all control messages (ie: UPDATE, etc) on that.
3. Punt for later

## Sync between tracks? [#475](#)

Currently, no way to sync between audio + video, etc

Currently, reordering and loss delays propagate

Sync of some sort allows correction at each hop

Is this something MoQ transport should provide?

# QUIC Streams and MoQ

Currently: "Streams aside from the control stream MAY be canceled due to congestion or other reasons by either the publisher or subscriber. Early termination of a stream does not affect the MoQ application state, and therefore has no effect on outstanding subscriptions."

Q1: If a subscription is cancelled or data is expired,  
the publisher SHOULD reset open streams?

Q2: Is there value to STOP\_SENDING by the subscriber?

# Stream FIN

QUIC Stream FIN (currently) indicates end of Object

Q3: Should QUIC Stream FIN mean end of Group?