An Unreliable Datagram Extension to QUIC

draft-ietf-quic-datagram

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Status

Down to four substantive open issues

Basis for work in MASQUE and WEBTRANS

Milestone to send draft-ietf-quic-datagram to the IESG in July 2021

Let’s get this shipped!
No Flow IDs

https://github.com/quicwg/datagram/issues/6

Section 5 explains that applications are responsible for defining and managing demux flow identifiers

Question keeps coming up, but consensus seems clear

Highlight this in a new subsection (5.1)?
Clarify Loss Recovery

https://github.com/quicwg/datagram/issues/8

Text doesn’t specify what to do if there is a suspected loss or PTO of only DATAGRAM frames

Consensus seems to be to treat these like any other packets, and send a PING frame if nothing else is enqueued
Transport Parameter

https://github.com/quicwg/datagram/issues/3

Currently is max_datagram_frame_size

Proposal (and PR) to use max_datagram_payload_size

- Payloads of size 0 should be allowed, but currently 0 in the TP means “not allowed”

- Do we need any limit?

- If we have a max size, should we have a frame to update it?
Application Events

https://github.com/quicwg/datagram/issues/15

Text currently says that QUIC MAY notify the application about ack’ed DATAGRAMs

Issue is about what happens if a receiver drops acked frames due to running out of space

Who owns the buffer? QUIC or the application?

Suggestion to say that if QUIC ever drops a received packet, it must inform the application