TRONE

Proposed shape of a merged proposal

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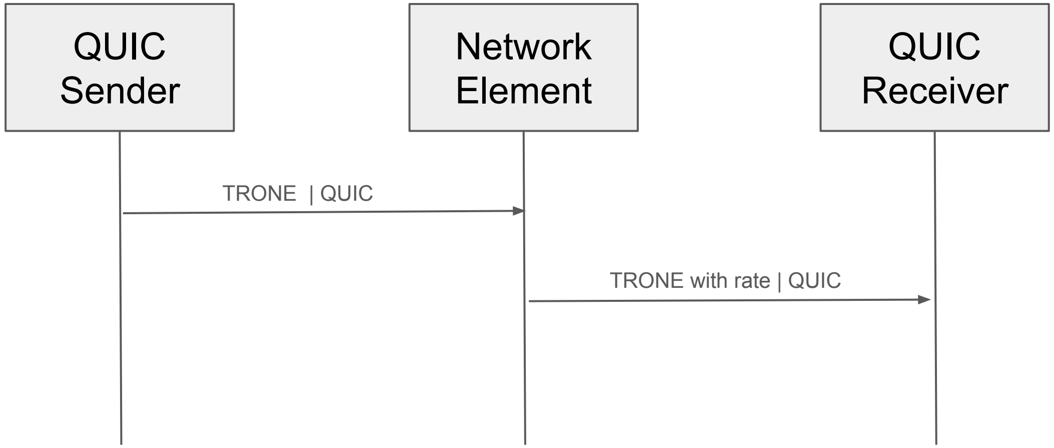
Use Communication Model From TRAIN

Endpoints negotiate support using transport parameter.

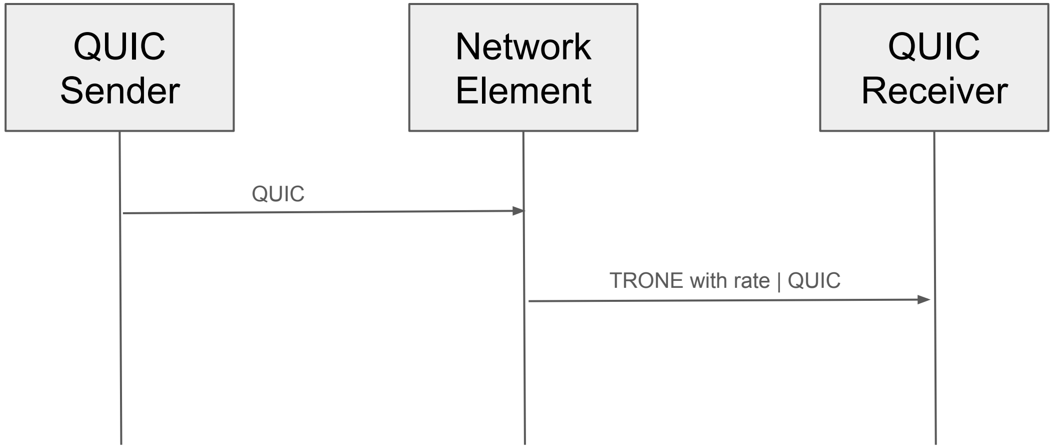
TRONE packets bound to QUIC packets.



Network Generated TRONE Packets

A network element can generate a new TRONE packet and insert in existing datagram (if datagram can be expanded without exceeding path MTU).

The document should describe and discuss this.



Explicit Encoding of Throughput Advice

Explicitly encode throughput advice in TRONE payload instead of using header bits.

+ Increased flexibility in setting values.
+ Frees up header bits for other purposes.
- Requires some parsing instead of flipping bit at fixed offset.
- Increased overhead.

```
TRONE Packet {
   Header Form (1) = 1,
   Fixed Bit (1) = 1,
   Reserved Bits (6),
   Version (32) = 0xTBD,
   Destination Connection ID Length (8),
   Destination Connection ID (0..2040),
   Source Connection ID Length (8),
   Source Connection ID (0..2040),
   Throughput Advice (TBD)
}
```

A Starting Point

Good enough for something the WG can adopt?

Future potential topics for WG to cover:

- Throughput advice format.
- Minimize risk of misclassifying packets.
- Can and should endpoints acknowledge receipt of advice?
- Can network elements influence the endpoint probing frequency?
- …