MASQUE extension for signaling throughput advice

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Background

- Presented at IETF 121
  - Parked to focus on SCONE Protocol

- **NOT a contender to SCONE Protocol for general Throughput Advice signalling**

- Intended for deployments where proxy operator wishes to rate limit traffic associated with a request
  - Access network related policies
  - Policies associated with proxy service subscription

Possible Throughput Advice Capsule

- **Proxy** sends advisory THROUGHPUT_ADVICE Capsule
- Rate Limit expressed in Kbps
- Direction indicates whether advice applies in DL, UL or both
- Optional average window – default 67 seconds as specified in SCONE

```
THROUGHPUT_ADVICE Capsule {
  Type (i) = 0xTBD,
  Length (i),
  Direction (8),
  Rate Limit (i),
  [Average Window (i)]
}
```

Use of Throughput Advice

Out of scope for the specification.

- Use the advice to apply back-pressure
- Forward the information through an out-of-band API or control channel
- Adjust sending behavior on behalf of the application.

Interaction with SCONE

- A proxy may observe e2e SCONE packets on proxied flows
  - Draft recommends NOT modifying e2e SCONE packets
  - Clients may get Throughput Advice from two sources

- Short discussion on interaction between e2e SCONE and QUIC-Aware forwarding
  - Long Header packets are sent in tunnelled mode
  - Should this apply to datagrams with e2e SCONE packets?
  - Discussion better suited in SCONE app/man document?

Questions

- Is this still relevant?
- Is SCONE the right venue?