

# SCONE QUIC Protocol

# What is it?

- “Descendent” of the original SADCNDN Strawman protocol.
- Much simpler, less generalized.
- Former versions coalesced packets w/ e2e packets.
- Packets look like QUIC Initials with a new version.
- Utilizes QUIC Initial-style encryption.



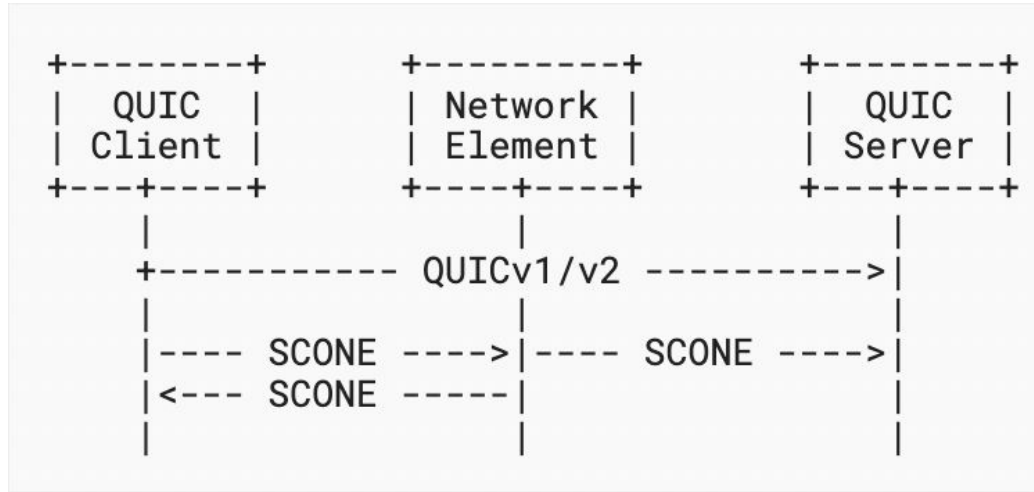
# Why QUIC Initials?



# Why QUIC Initials?

- Many network elements already understand and decrypt QUIC Initials.
- Naturally handles lack of support as unsupported versions ignored.
- If future needs arise from rechartering QUIC building blocks are available.
  - Wouldn't be hard to extend to different types of information.
  - Could be built into a mutually authenticated channel with a network element.

# Basic Overview



# Wire Format

```
SCONE Packet {  
  Header Form (1) = 1,  
  Fixed Bit (1) = 0,  
  Throughput Advice Bit (1),  
  Average Window Bit (1),  
  Forward Bit (1)  
  Reserved Bits (3),  
  Version (32),  
  Destination Connection ID Length (8),  
  Destination Connection ID (8..160),  
  Source Connection ID Length (8),  
  Source Connection ID (8..160),  
  [Throughput Advice (32)],  
  [Average Window (32)]  
}
```