



SCION control plane RPCs IETF Hackathon

**IETF 118
4–5 November 2023
Prague, Czech Republic**



Hackathon Plan

- RPCs for path discovery in SCION control plane
 - Currently uses gRPC
 - Go implementation of gRPC hard-wired to HTTP2; to use it with QUIC in SCION:
 - gRPC / HTTP2 / QUIC / SCION
 - We'd rather want RPCs based on HTTP3
- draft-dekater-scion-controlplane

What got done

- Built prototype to use “Connect” [1] for SCION control plane RPCs
 - TLS protocol negotiation to use gRPC or connect HTTP3
 - <https://connectrpc.com/docs/protocol/>
 - <https://github.com/scionproto/scion/tree/connectrpc>



What we learned



- It works
- QUIC is great, HTTP3 rocks
- Easy to support different protocols in SCION, things are very composable.

Wrap Up

Team members:

- Dominik Roos
- François Wirz
- Thorben Krüger
- Matthias Frei

First timers @ IETF/Hackathon:
all of the above

<https://github.com/scionproto/scion>