

SIP Security Overview

IETF 88 (Vancouver)

SIP Security and Usability

- Baseline SIP signaling
 - Digest auth, TLS, S/MIME for bodies (optional)
 - Decentralized, federated, beholden to CAs
 - But little adoption of TLS, less still of S/MIME
 - Deployability of certs to endpoints a major concern
- Media security
 - SRTP gives way DTLS/SRTP
 - Alternatives like zRTP in the marketplace (opportunistic)
- Connective tissue between signaling and media?
 - How to negotiate security keys for SRTP?
 - How to bind SIP-layer identities to media streams?
 - SIP Identity for URIs, ongoing work in STIR for telephone numbers
 - IdP work in RTCWeb