STIR Callback

draft-rosenberg-stir-callback-00

IETF 101
Problem Statement(s)

3 Party Dependency Problem
It’s the Long Tail

• US CLECs – 3000ish of them
• International calls and providers
• B2B Calls
How does it work?

Orig Domain

Public SIP Telephone Network (PSTN)

Term Domain
How does it work?

Orig Domain

INV (Call)
SIP
Telephone
Network (PSTN)

Term Domain
How does it work?

INV (Call)
SIP
INV (Verify)
471
How does it work?

Orig Domain

 INV (Call)
 SIP
 INV (Verify)
 471

Term Domain

 INV (Call)
Complementing RFC8226

• Tool in the toolbox –
  • If the incoming INVITE has a certificate and number is valid – great! BUT –
    • if incoming INVITE doesn’t have certificate for TN – verify
    • If incoming INVITE has a cert but its for an OCN and terminating carrier cannot verify TN is within carrier range – verify
Bootstrapping RFC8226

• FFS – terminating domain generate certificates attesting to number ownership and pass back to sender?