SATP Architecture – Updates

draft-ietf-satp-architecture-05

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Updates to SATP Architecture draft

• Clearer demarcation of Stage-1 from Stage-0
  • Transfer Proposal and Accept/Reject
• Architecture Figure Update
• ContextID and SessionID
Clearer Demarcation of Stage-0

• Stage-1 is final acceptance of parameters negotiated in Stage-0

• Receiving gateway G2 has last chance to decline gracefully
  • G1\rightarrow G2: Transfer Proposal
  • G2\rightarrow G1: Proposal Receipt (signed), or
  • G2\rightarrow G1: Proposal Reject (and terminate session)
Transfer Proposal & Accept/Reject

Stage 1

(1.1) --- Transf. Proposal -->

(1.2) <- Prop. Receipt/Reject -

(1.3) --- Transf. Commence -->

(1.4) <---- ACK Commence ----
Transfer Proposal: Accept or Reject

• Sender gateway (G1) sends a Transfer Proposal message carrying the claims agreed upon in Stage-0

• Acceptance (Proposal Receipt):
  • Receiving gateway (G2) accepts the claims in the proposal message and wishes to proceed

• Rejection (Proposal Reject):
  • Receiving gateway (G2) rejects, for some reason
  • Immediate termination of the session
Application may interact with the network and with gateways

This addresses broader types of applications that interact with network (e.g. DApps)

Also addresses broader use-cases (e.g. Views)
ContextID and SessionID

• ContextID:
  • Application-level construct
  • Enables applications to keep track of transfers
  • Value established prior to SATP transfer

• SessionID:
  • Gateway-level construct
  • Unique per-transfer instance for pairs of gateways
  • Chosen at Stage-1 by sender gateway G1

• Note: *gateway selection is out-of-scope for SATP*
One ContextID, two sessions, same gateway-pairs

I’m sending you 2 parts of one deal (ContextID 12345):
- One ART-compliant asset
- One EMT-compliant asset
Thank You and Q&A