

SATP Architecture – Updates

draft-ietf-satp-architecture-05

SATP WG Meeting

IETF120

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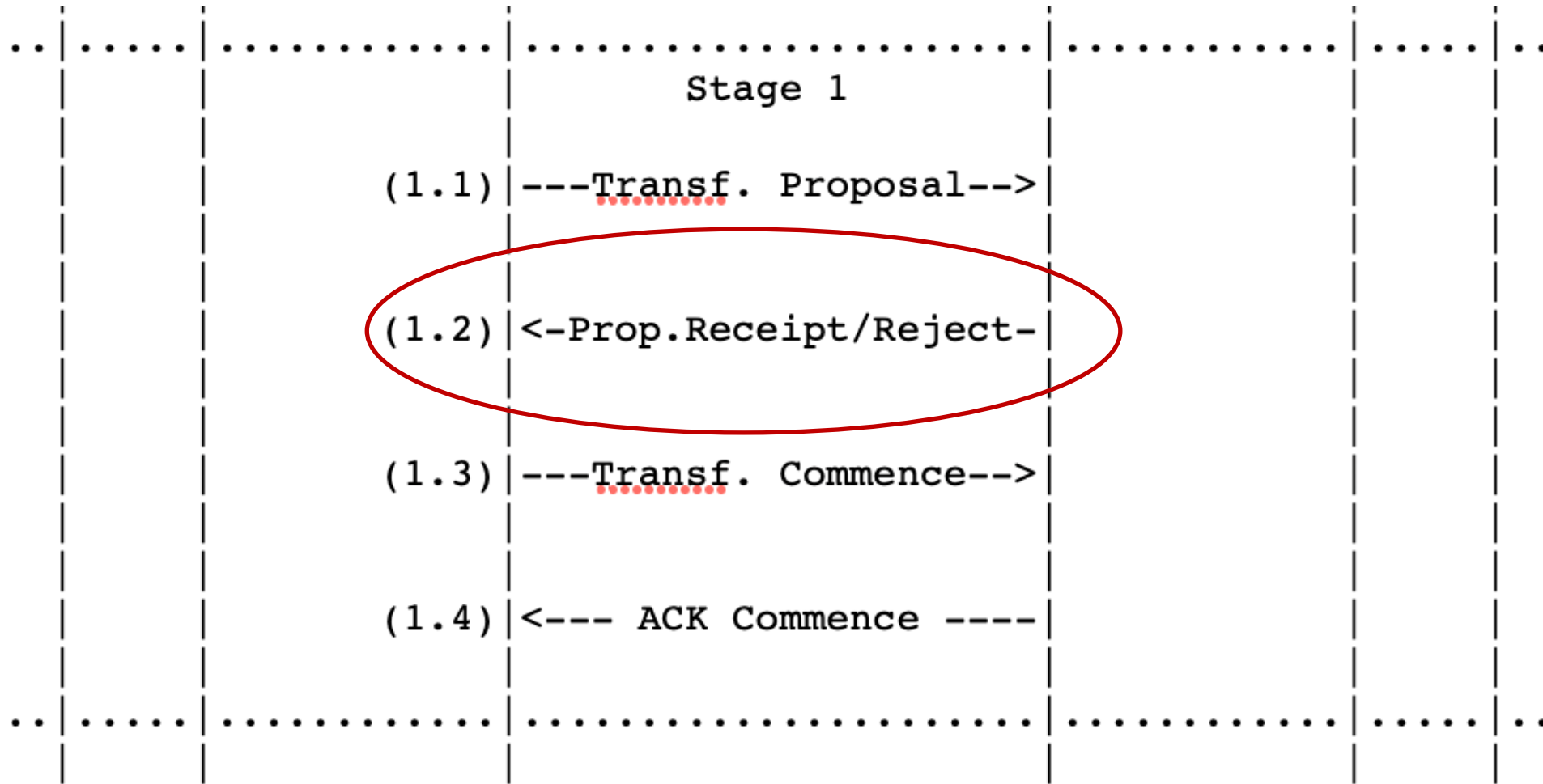
Updates to SATP Architecture draft

- 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 → G2: Transfer Proposal
 - G2 → G1: Proposal Receipt (signed), or
 - G2 → G1: Proposal Reject (and terminate session)

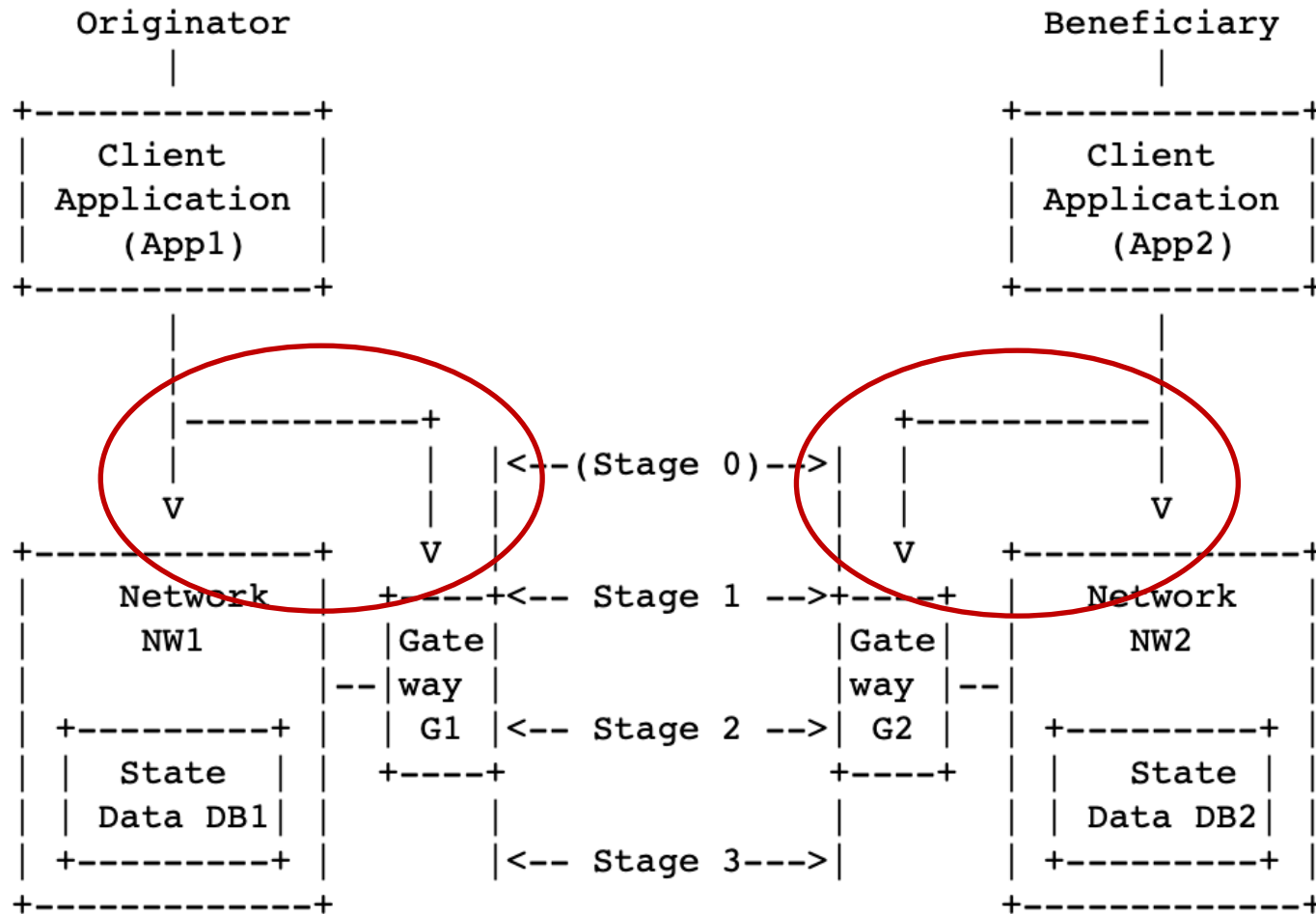
Transfer Proposal & Accept/Reject



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

Architecture Figure Update



Application may interact with the network and with gateways

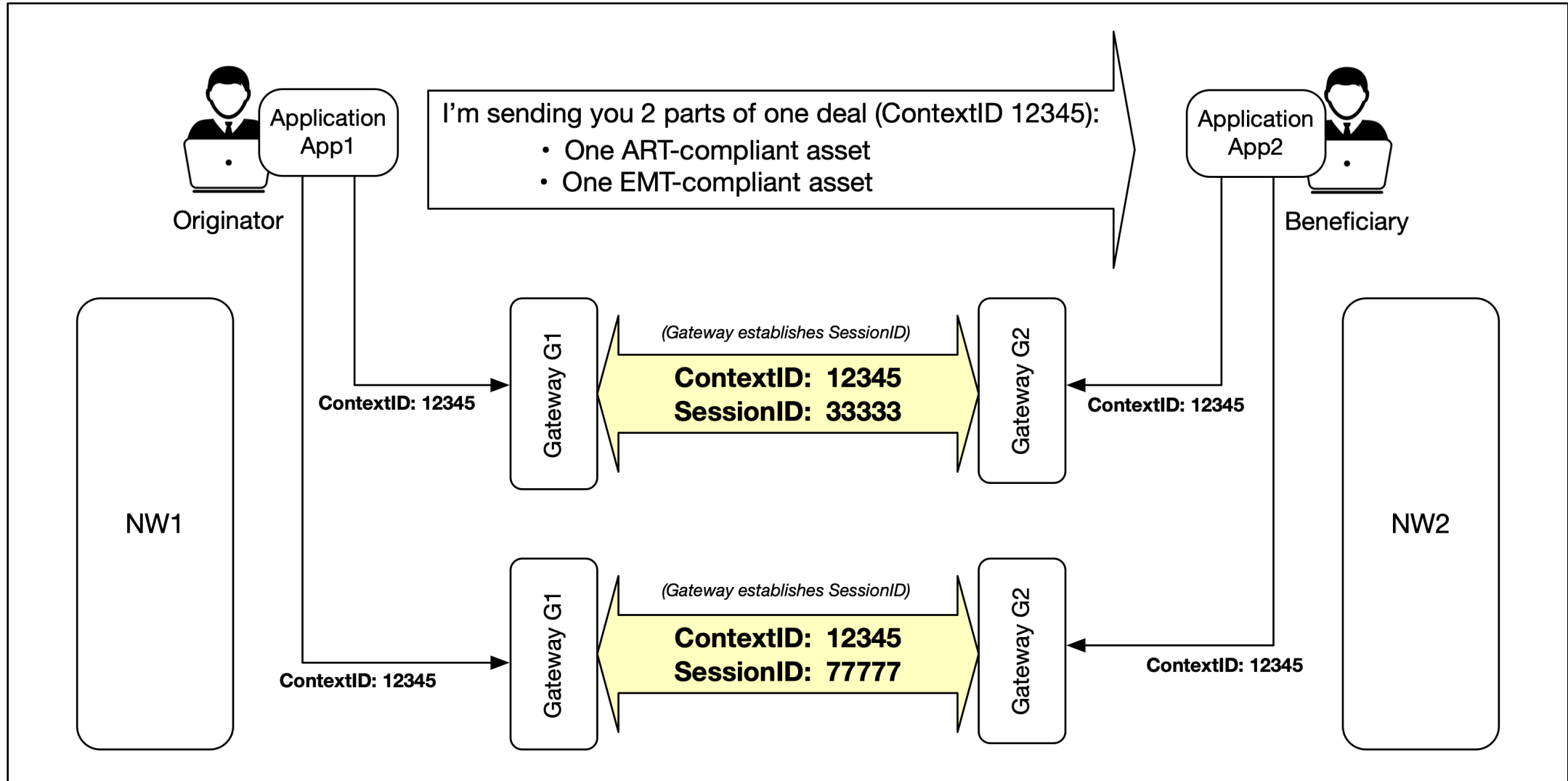
This addresses broader types of applications that interact with network (e.g. DApps)

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



Thank You and Q&A