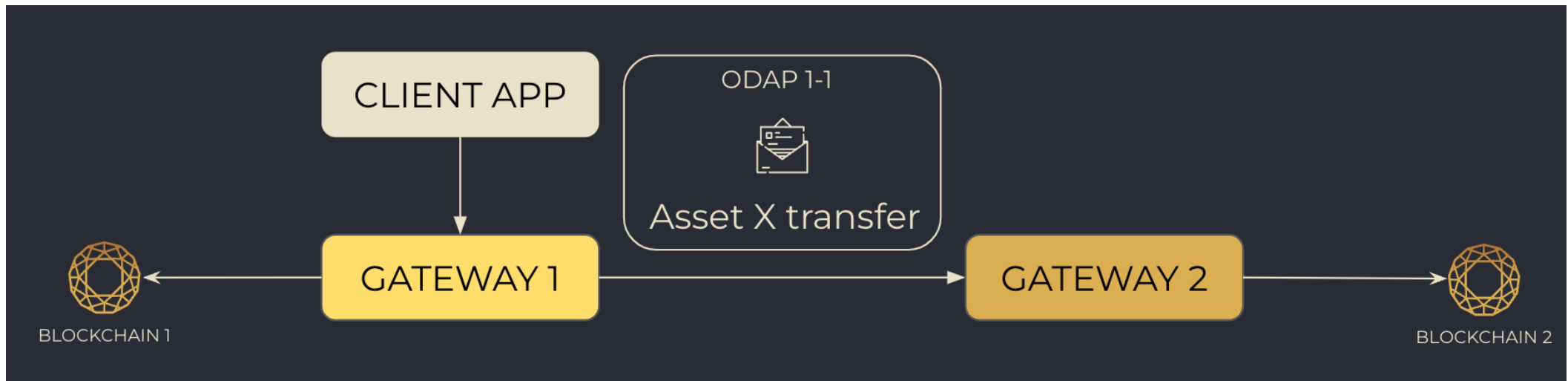
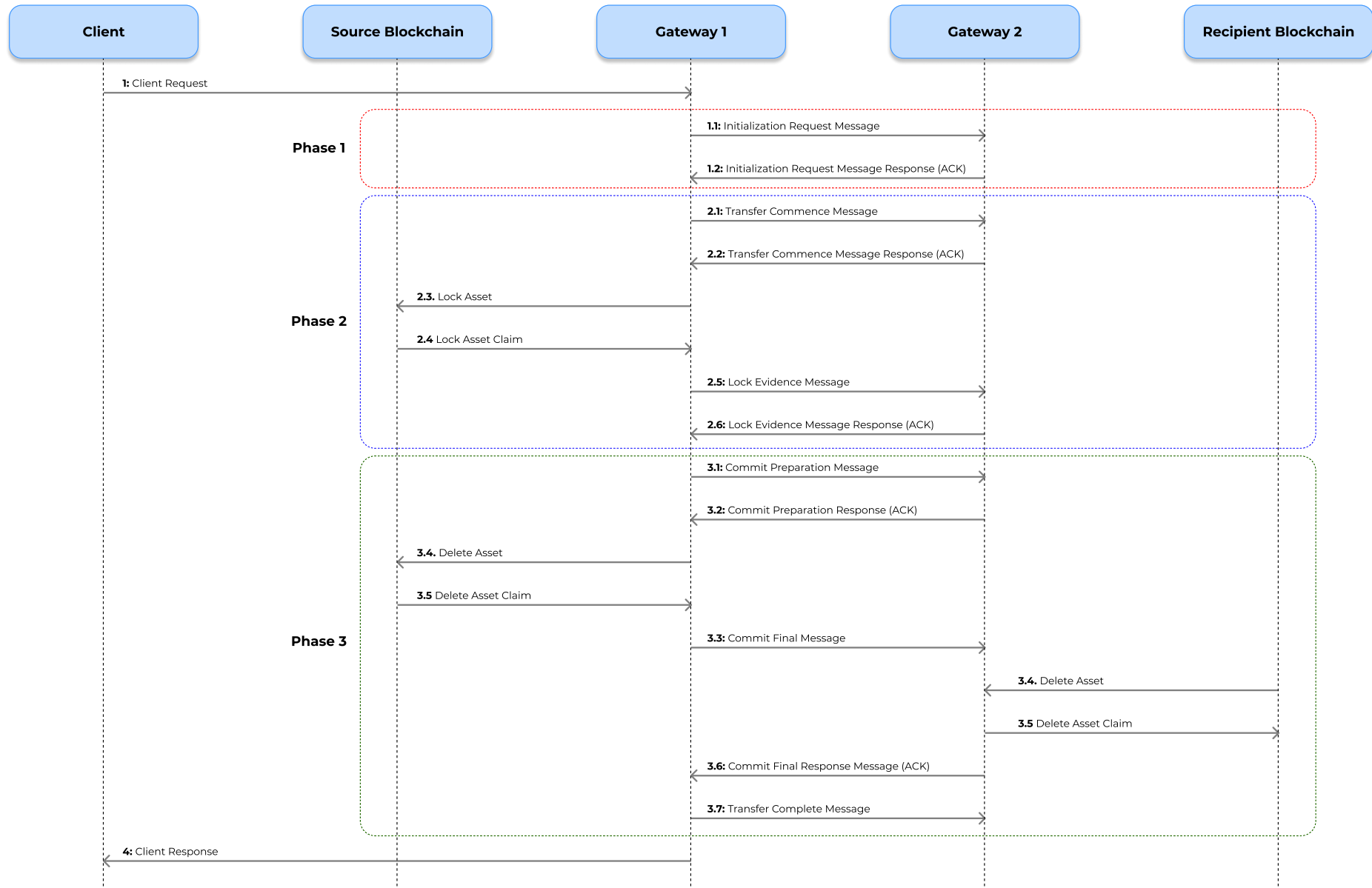


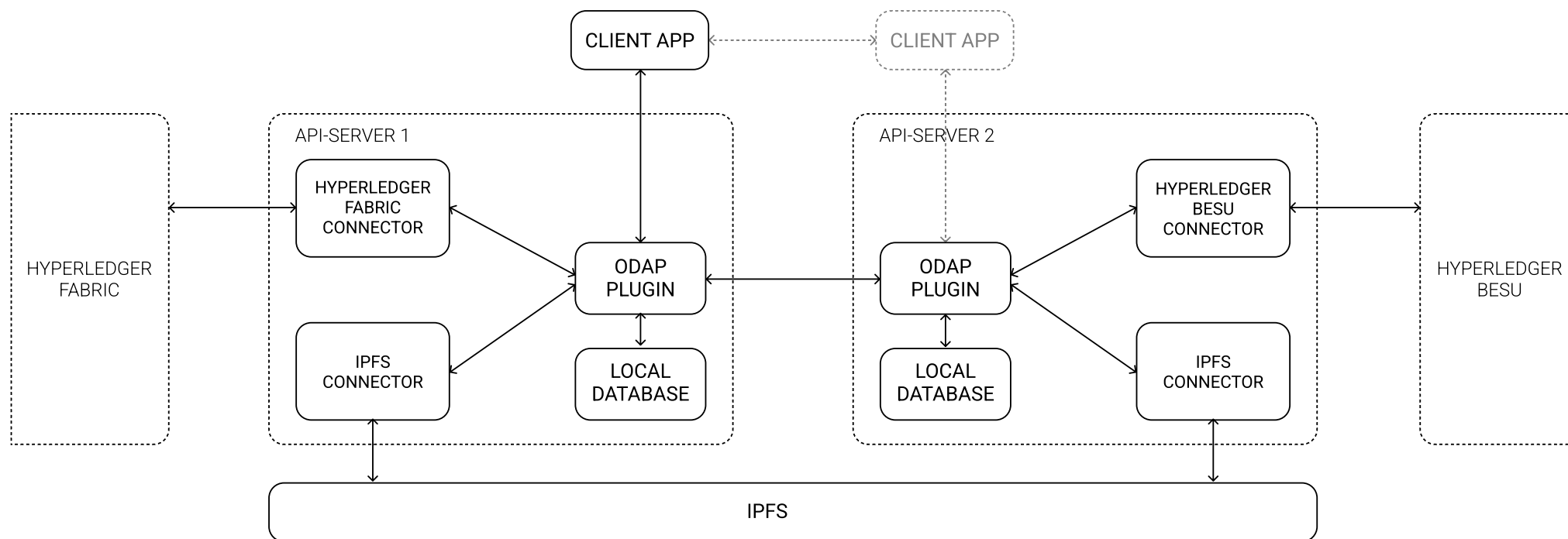
Gateway-Based Blockchain Interoperability



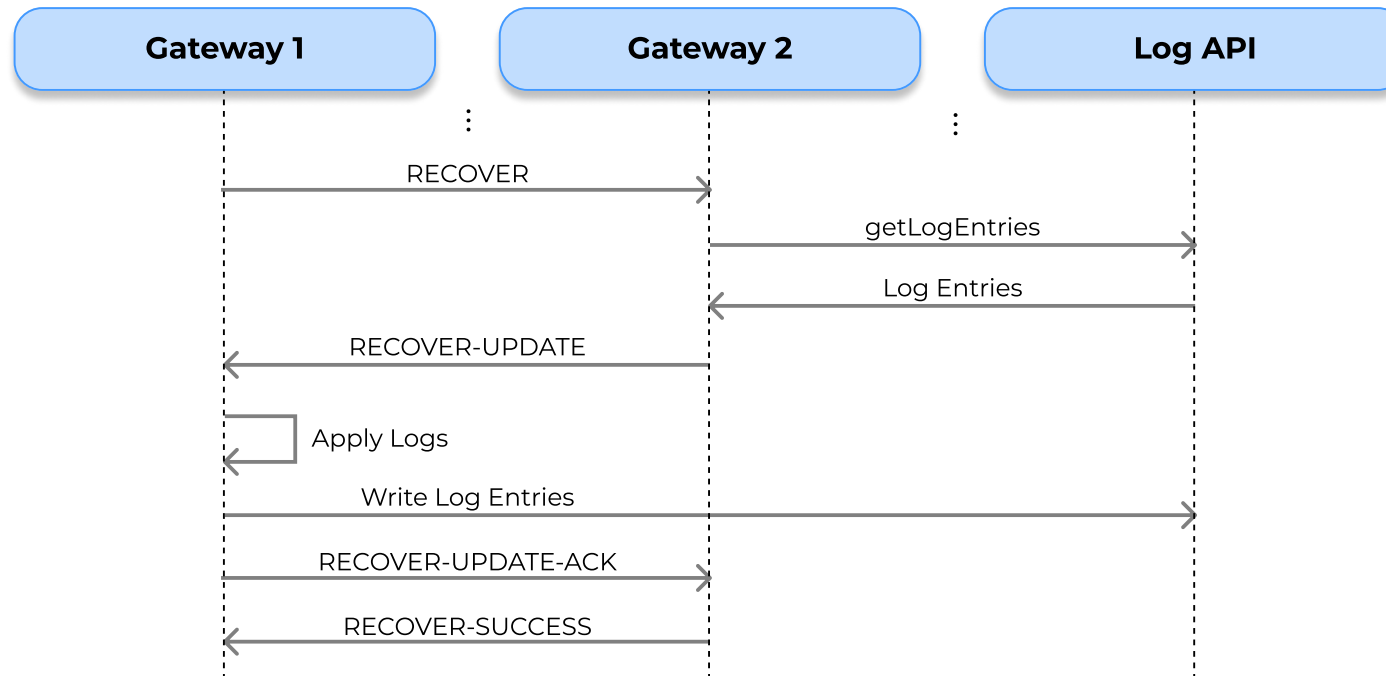
Open Digital Asset Protocol



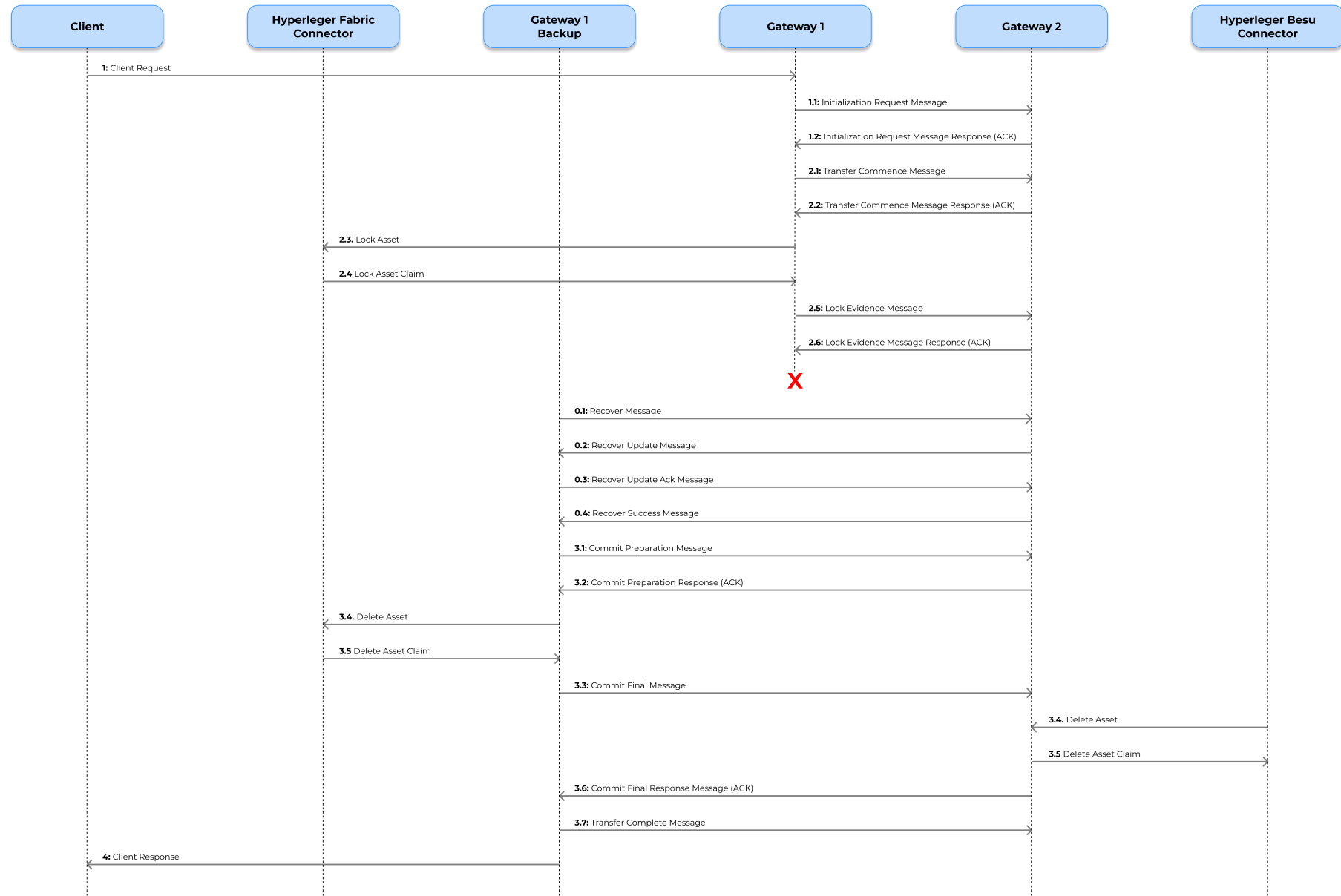
Hyperledger Cactus Implementation Architecture



Crash Recovery – Self Healing



Crash Recovery – Backup Gateway



Properties:

ACID + Auditability + Termination

There are three ways of terminating:

- rollback protocol
- self-heal
- primary-backup scheme

Privacy:

Each gateway needs to have read/write permission to access the ledgers.

- In Fabric side we assume the gateway belongs to one of the organisations of the channel.
- In Besu side we assume the gateway has the keys to access the destination address.

Relevant links:

- HERMES paper: <https://www.sciencedirect.com/science/article/abs/pii/S0167739X21004337>
- SAT: <https://datatracker.ietf.org/doc/bofreq-hardjono-secure-asset-transfer-protocol/>
- ODAP draft: <https://datatracker.ietf.org/doc/draft-hargreaves-odap/03/>
- ODAP-2PC draft: <https://datatracker.ietf.org/doc/html/draft-belchior-gateway-recovery-04>