

SATP

Problem Space & Goal

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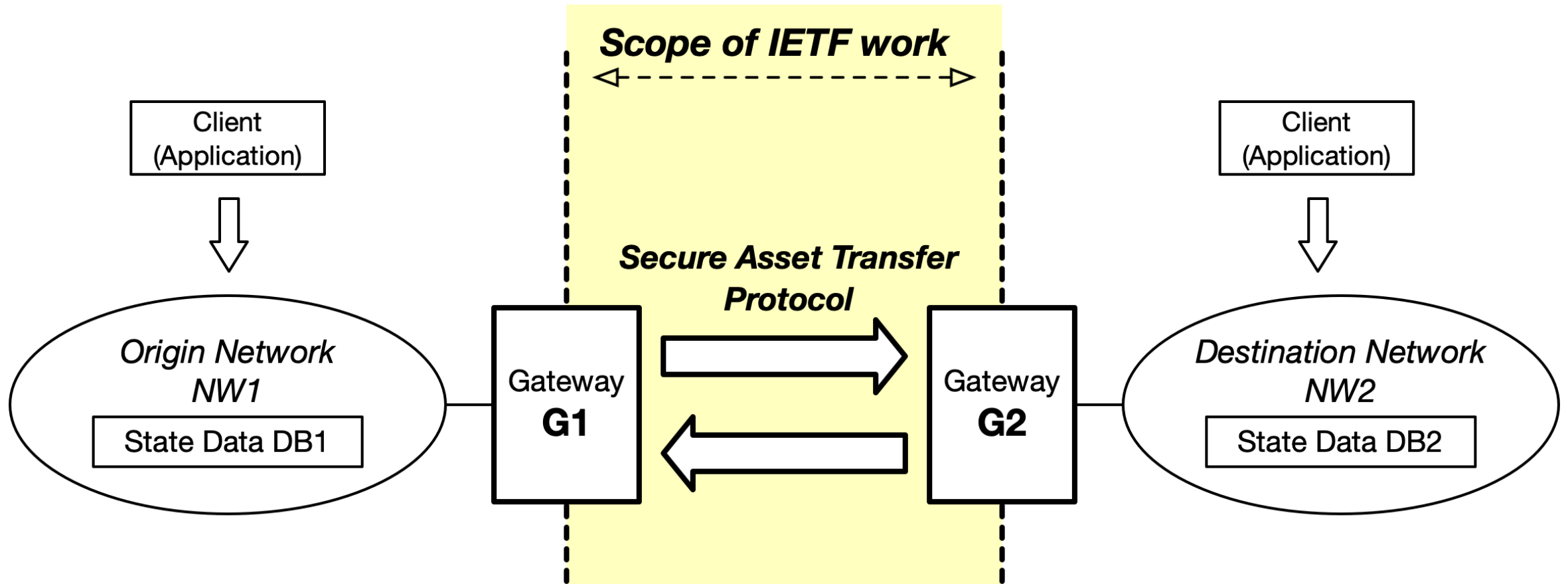
Problem Statement

- Poor interoperability of digital asset networks
 - Assets cannot be easily moved to another network
- Poor scalability:
 - Bilateral agreements
 - Proprietary transfer protocols
- Lack of standards
 - Inhibits industry growth

SATP Goal

- An interoperability protocol that permits the movement of a unique *value-bearing data-object* (“asset”) from one network to another,
- while guaranteeing that the data-object is *valid* in one network only at any one time, and that
- the transfer is *verifiable* by an independent authorized 3rd party

Proposed Scope of Work



Assumptions

- Both networks share common semantics about the data-object and the notion of validity
- One or both networks are opaque
- “Gateways” implementing the transfer protocol are trusted
- Information subsets (views) of a data-object maybe shared with authorized external parties

Proposed Approach: Gateway Model

- Interoperability “lessons learned” from the Internet Architecture
- One (or more) gateway in front of each network
- Peer gateways implement a *Secure Asset Transfer Protocol* (SATP)
- Each gateway handles (hides) the interior characteristics of its network

Proposed Starting Point

- Collect Use-Cases:
 - draft-ramakrishna-sat-use-cases-00
- Develop a common Architecture
 - draft-hardjono-sat-architecture-00
- Initial design for asset transfer
 - draft-hargreaves-sat-core-00
- Initial design for sharing asset-related data
 - draft-ramakrishna-sat-data-sharing-00

Thank You & Questions