

WoN Design – High Level



Research Studios Austria
Forschungsgesellschaft

The Web as a Marketplace



Supply

Demand

Marketplace Functions

Publish intention (supply, demand, and others (!))

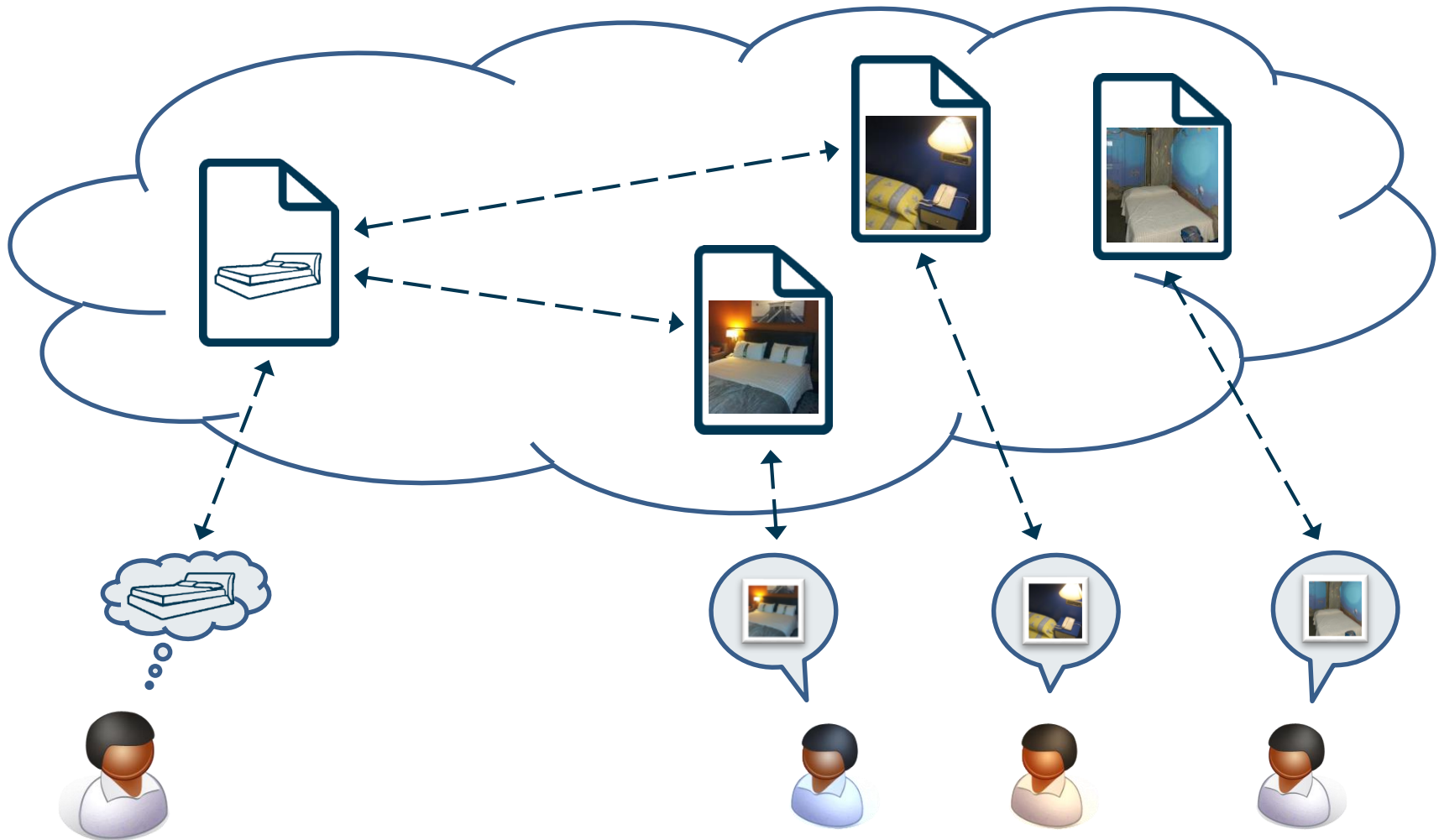
Find Partners

Perform Transactions

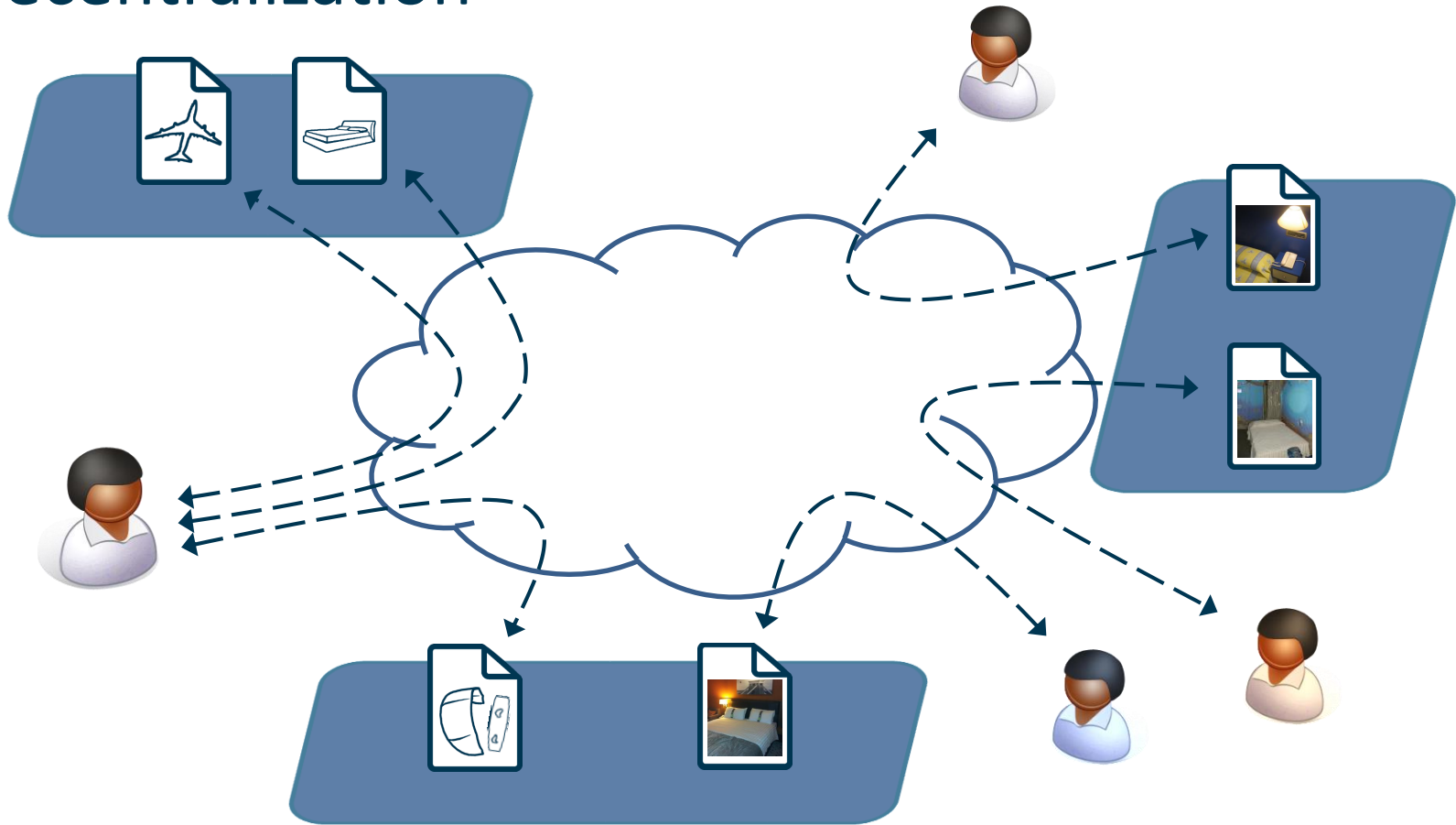
Example: Rent a Hotel Room



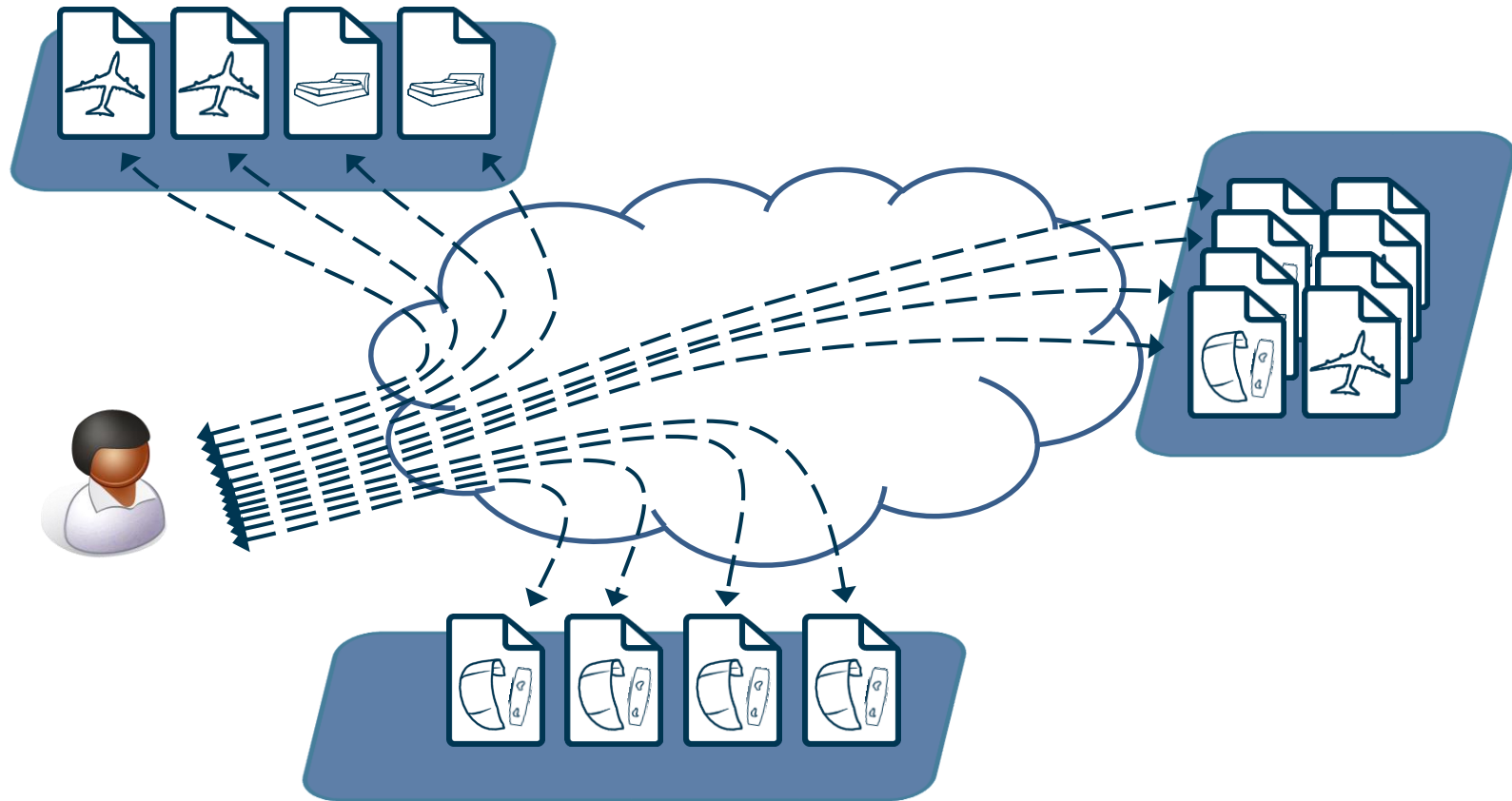
Representation



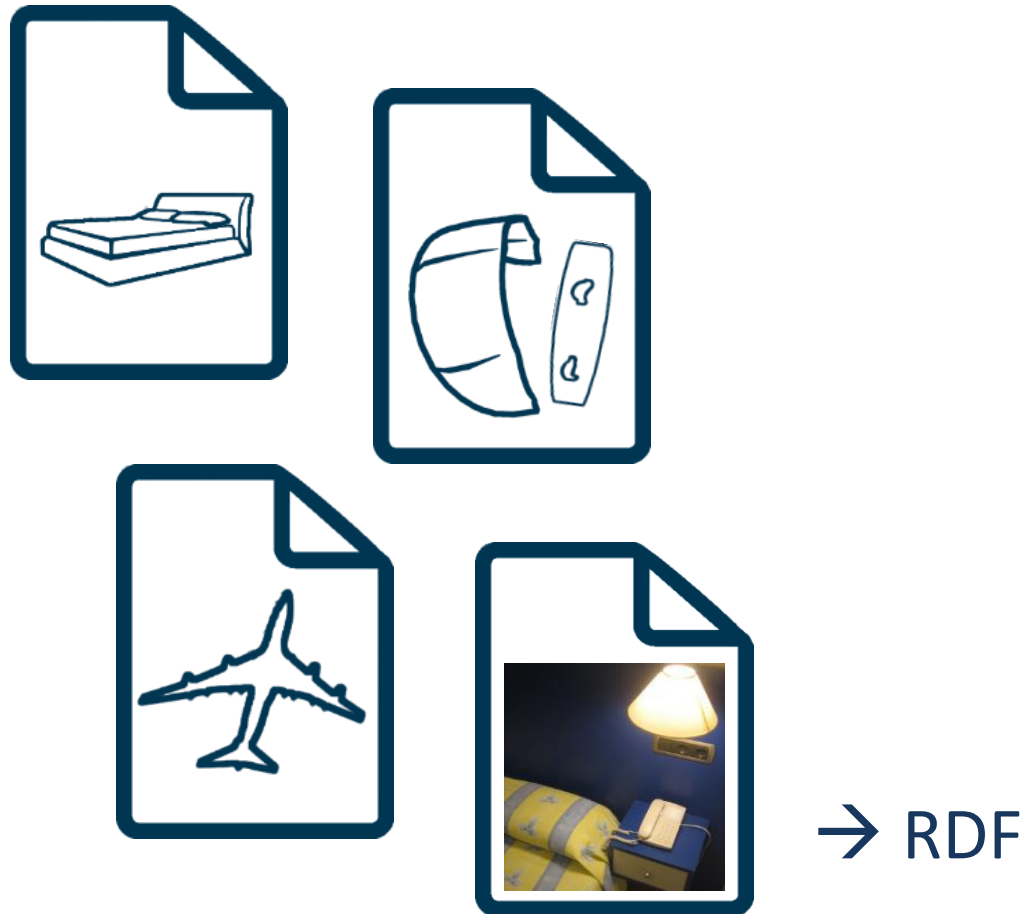
Decentralization



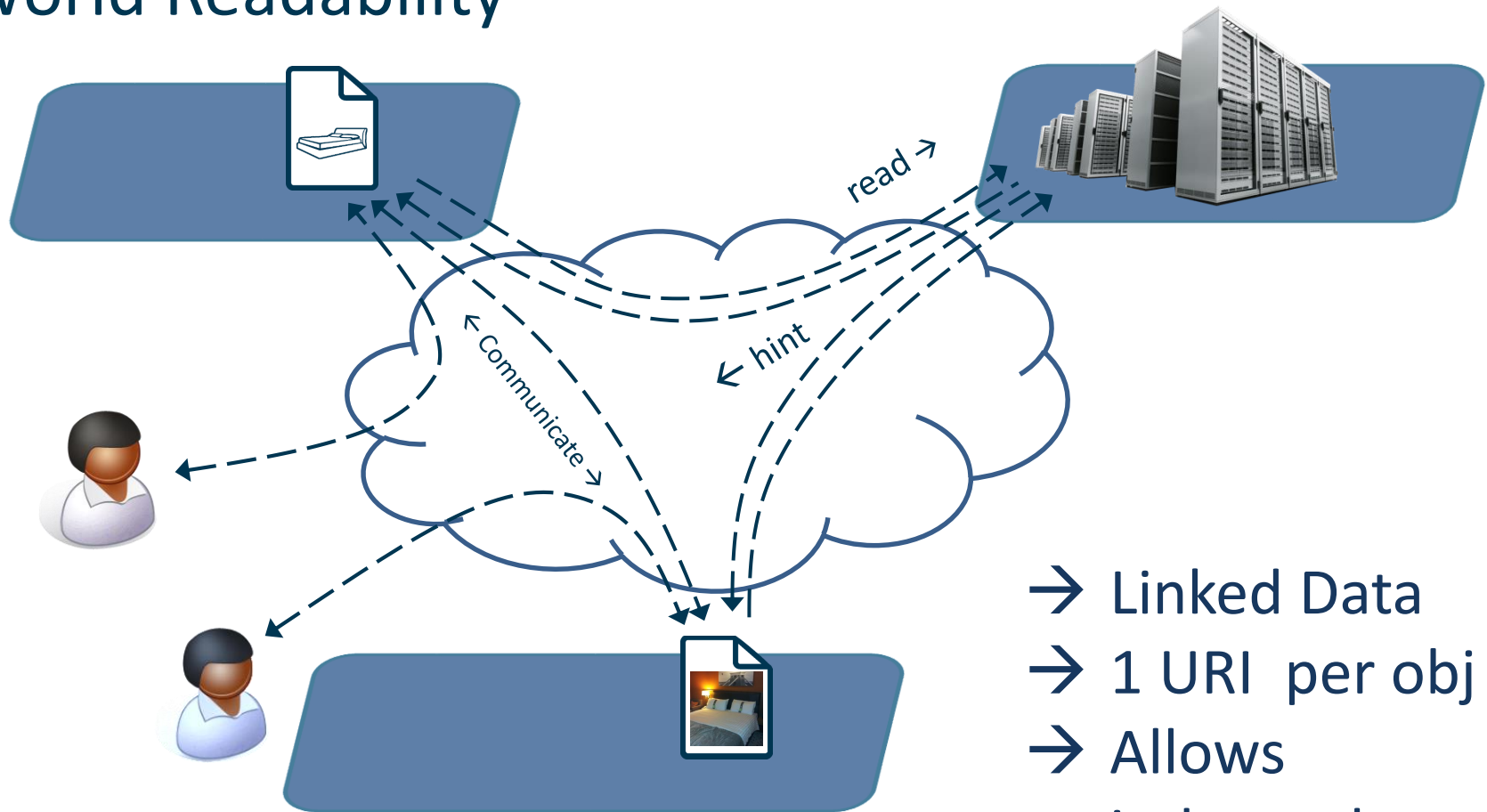
Simple Unit Creation



Flexible Description Language

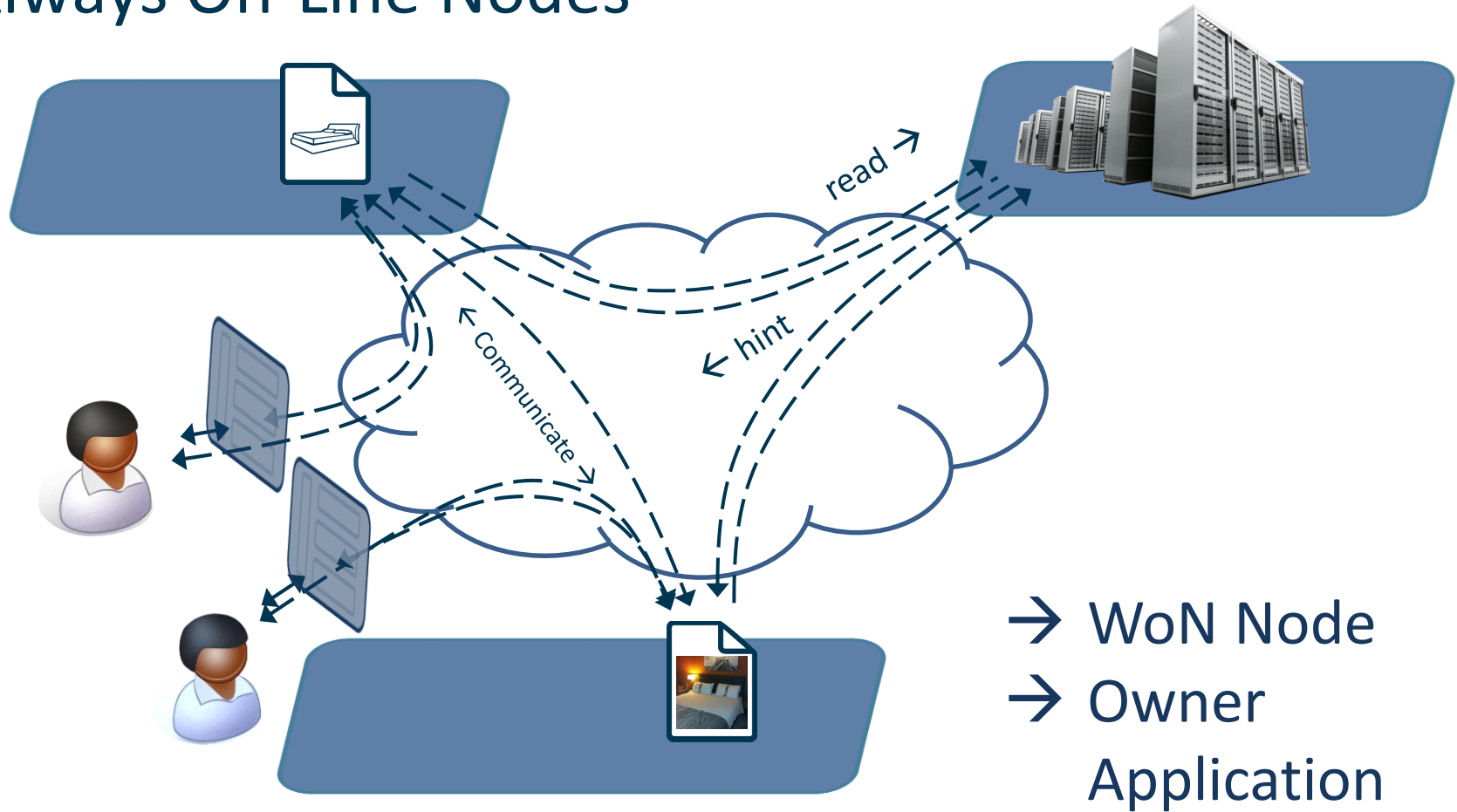


World Readability

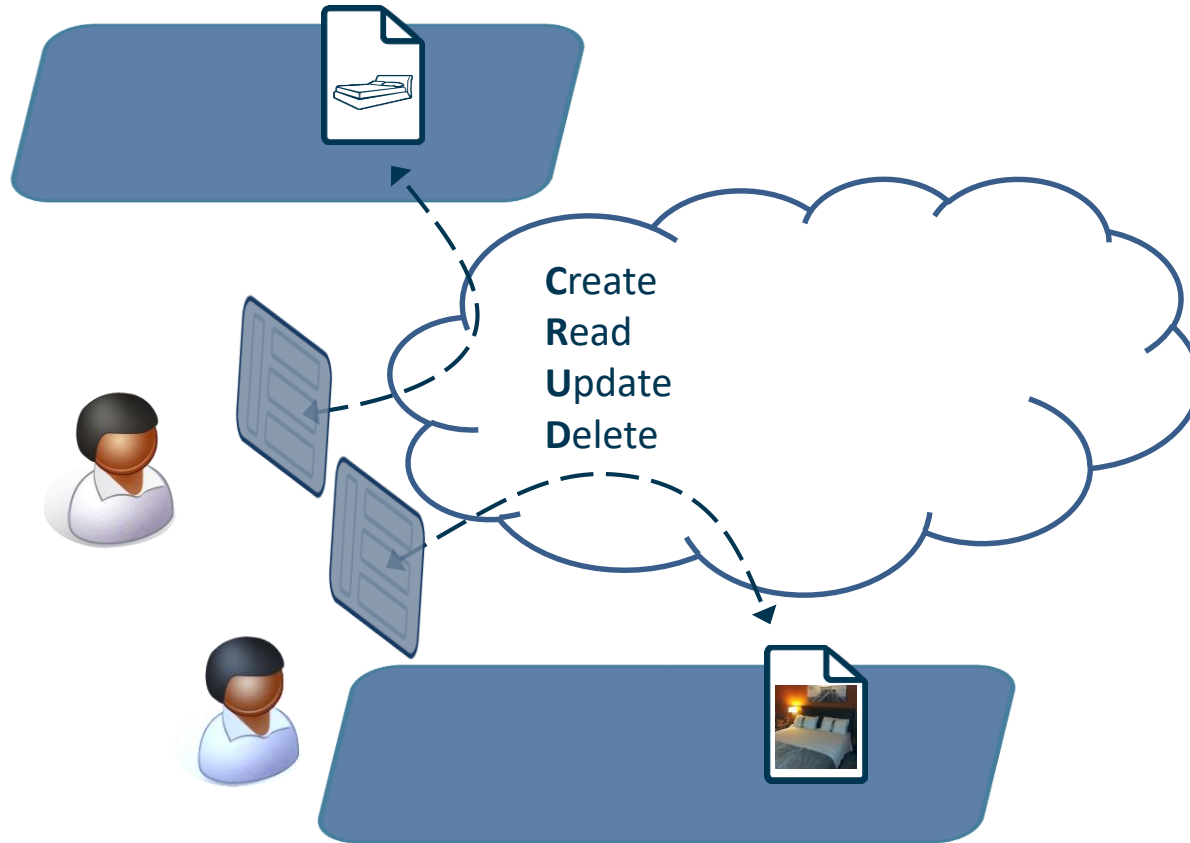


- Linked Data
- 1 URI per obj
- Allows independent matching

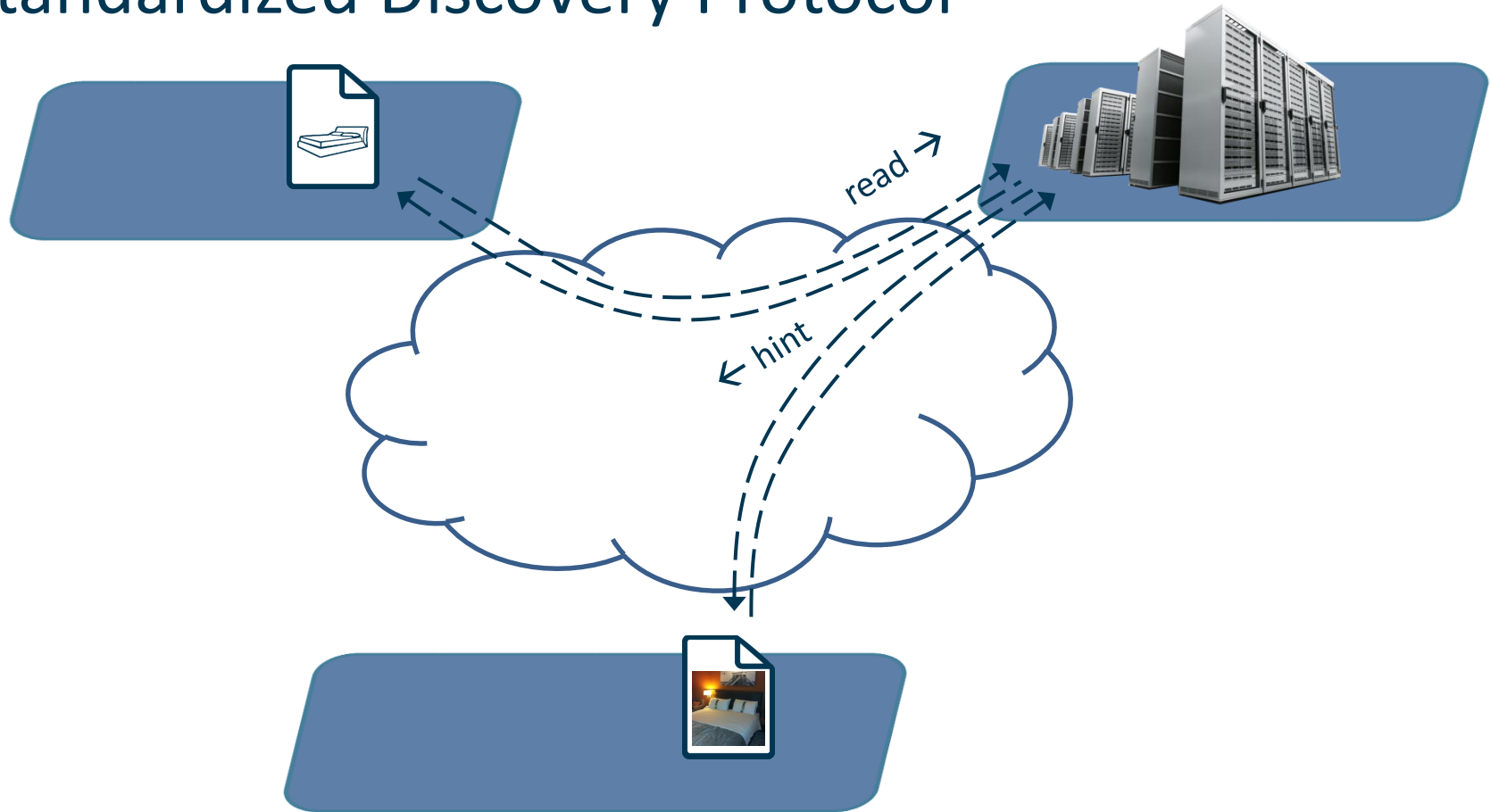
Always On-Line Nodes



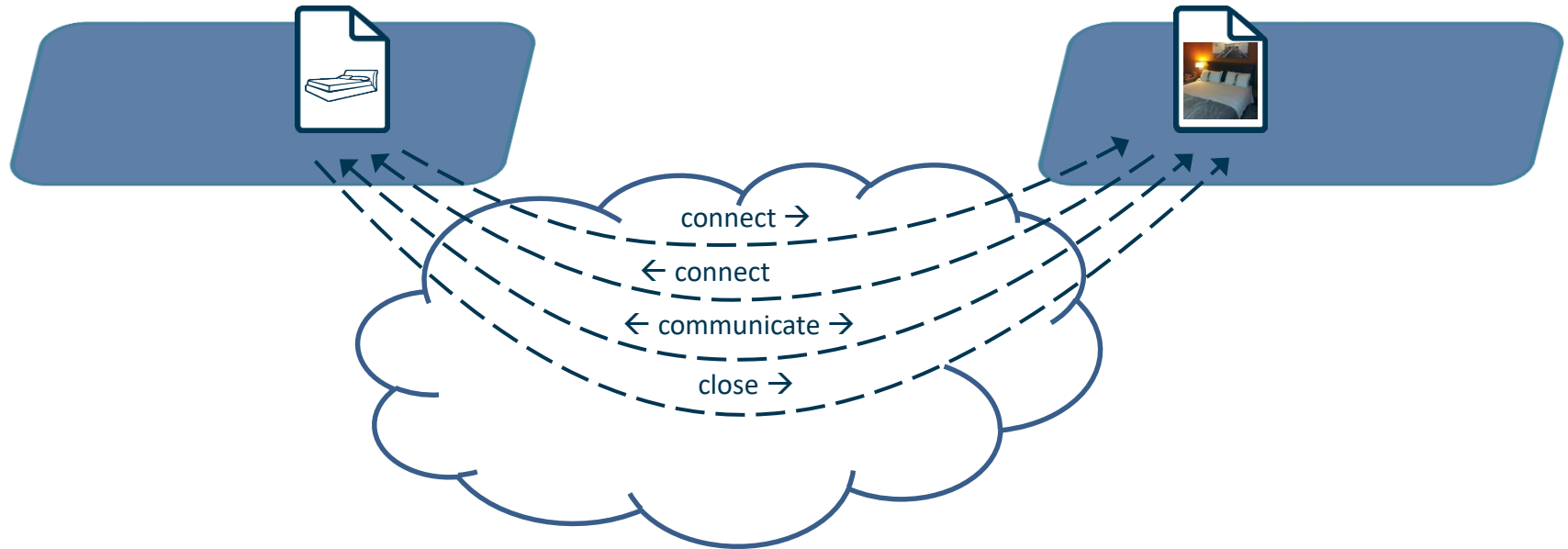
Standardized CRUD Protocol



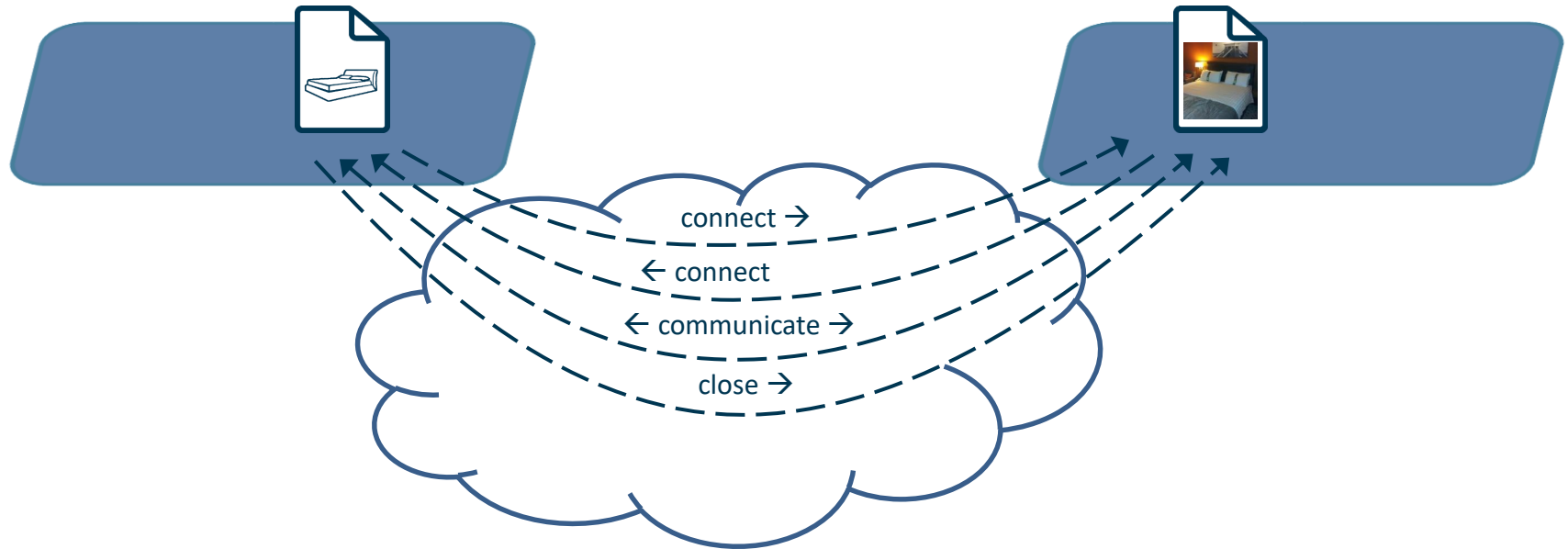
Standardized Discovery Protocol



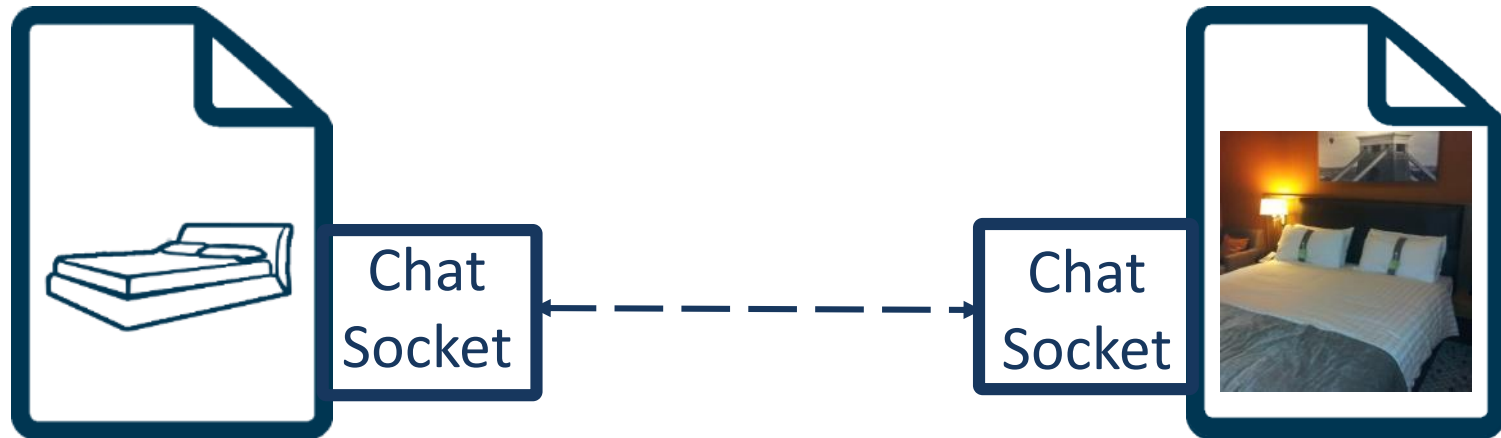
Standardized Protocol for Making Connections



Layered Communication Protocol



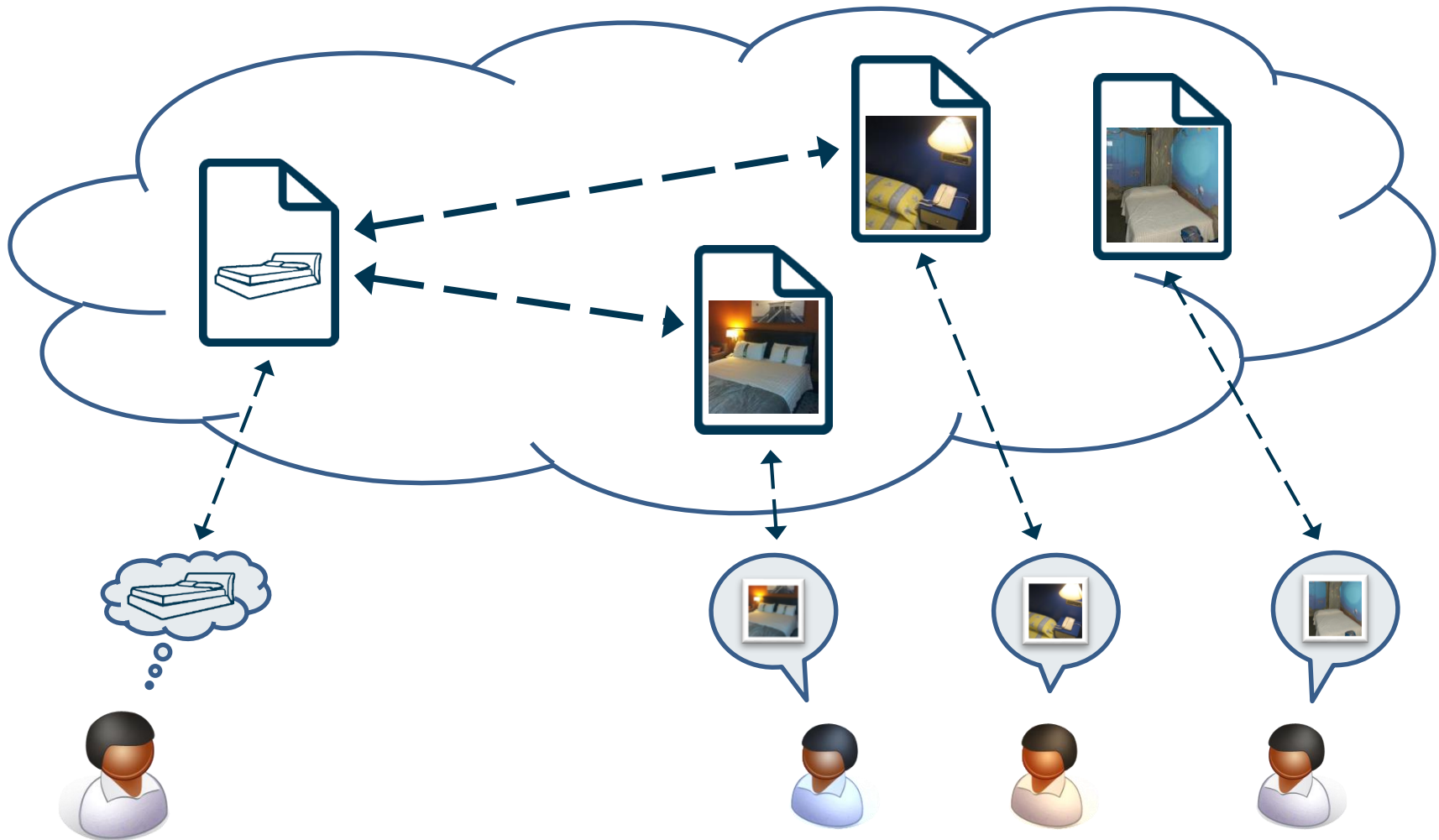
Layered Communication Protocol



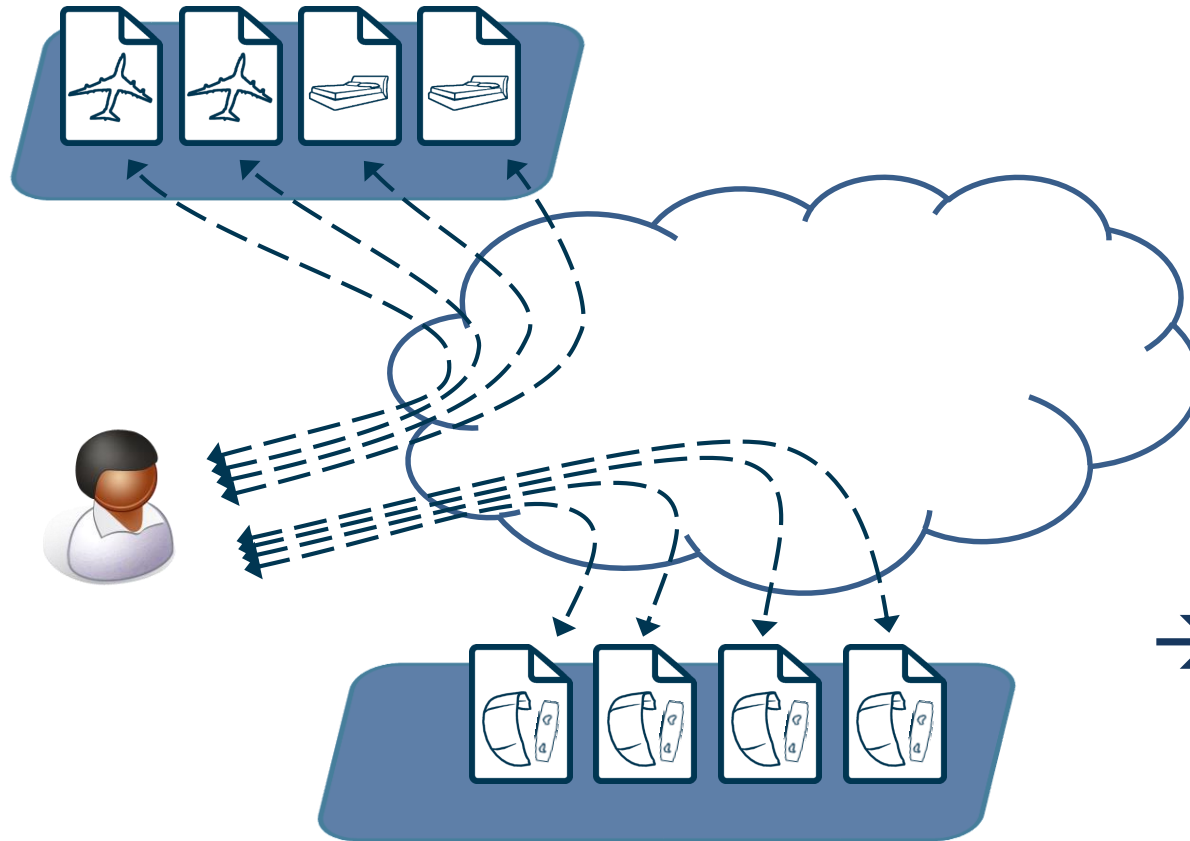
„socket“ \approx higher-level protocol

- Chat, group chat
- Object relationships
- Agreements
- more can be defined

World-Readable Connection Information

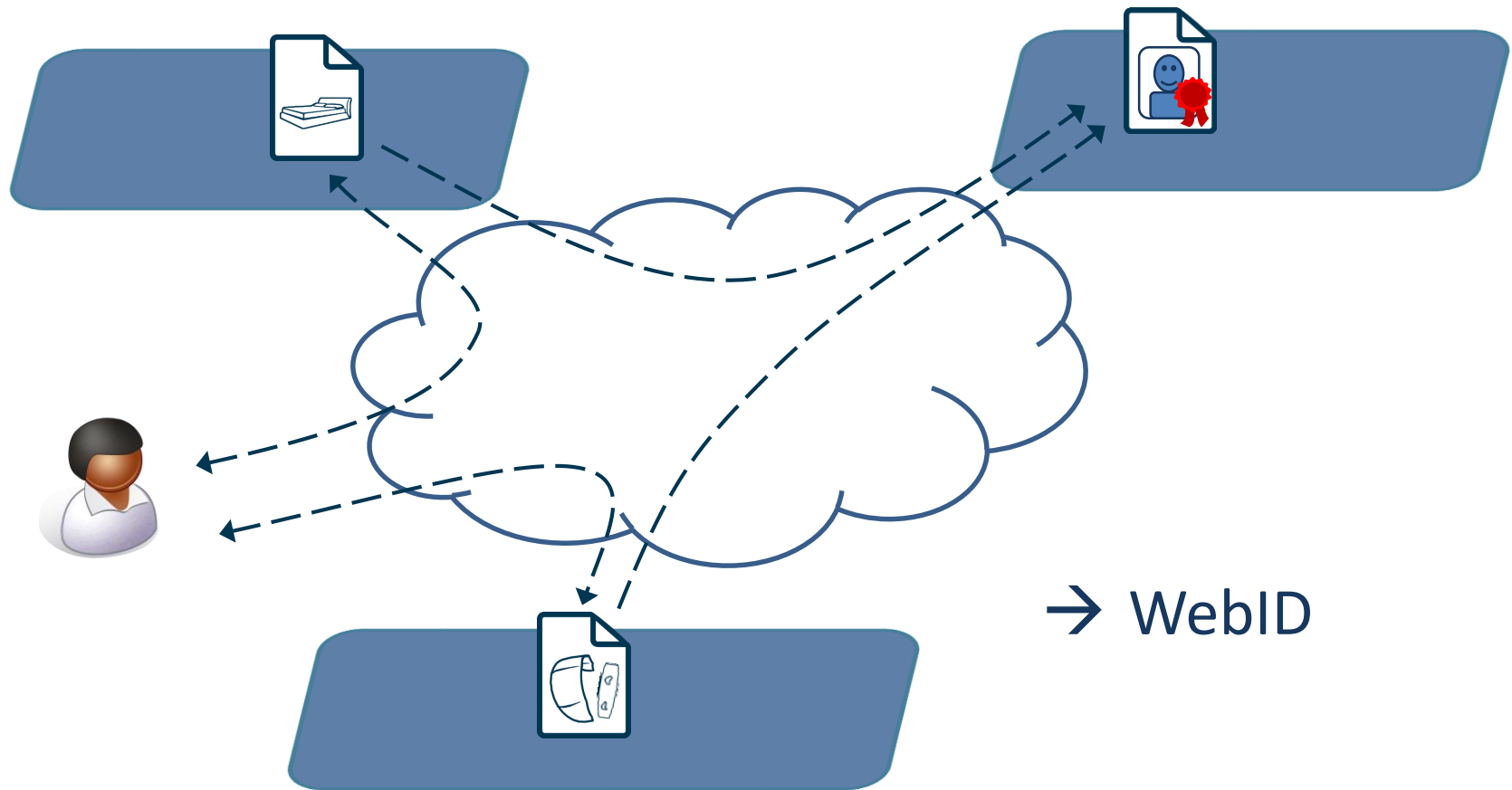


Anonymity (weak)



→ No personal information (unless you want to)

Identity



Access Control

public

**Demand:**

- when
- where
- how
- ...

restricted access

Transaction-related:

- invoice address
- email
- phone
- bank connection

**Supply:**

- when
- where
- how
- ...

Transaction-related:

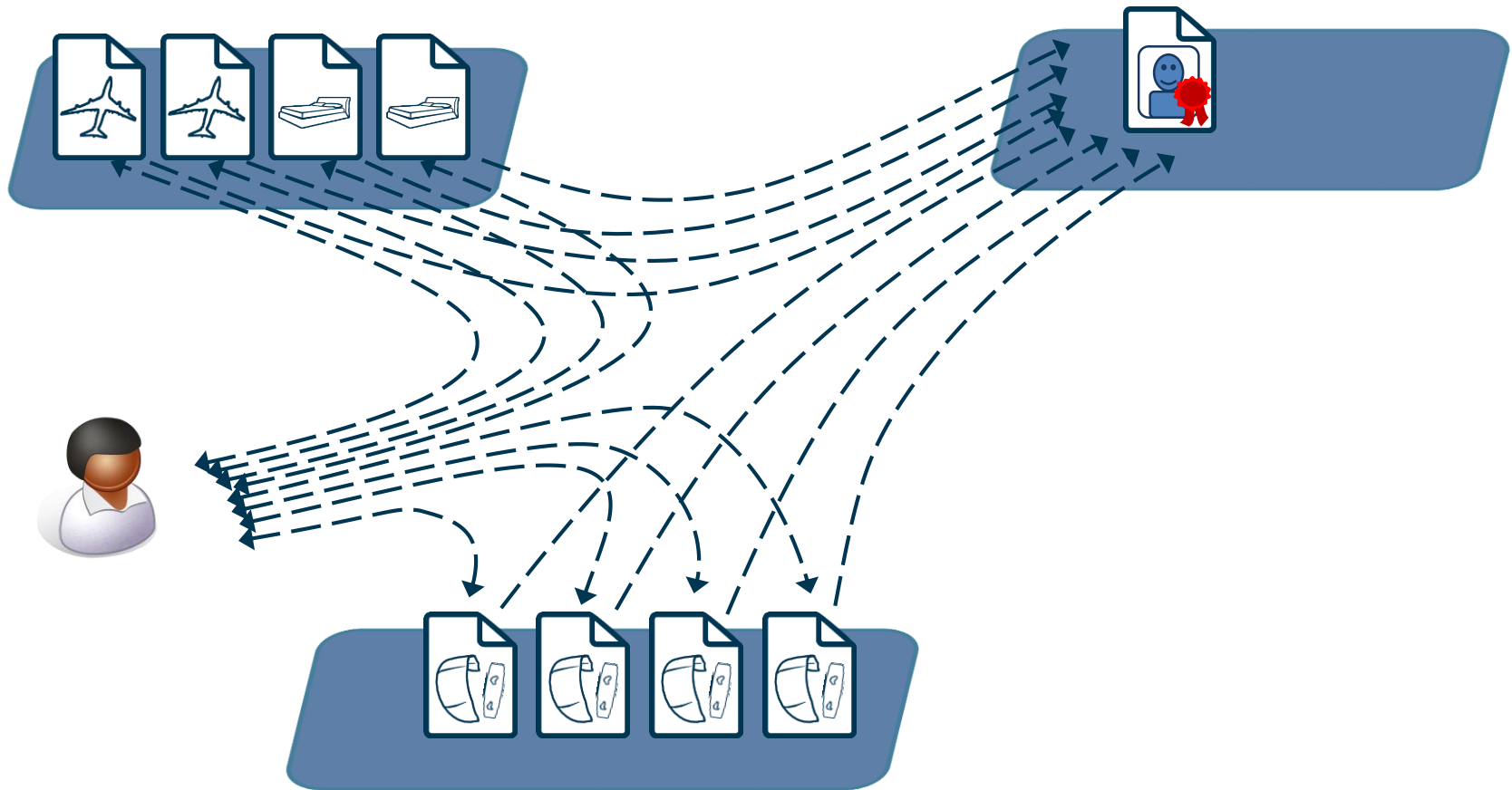
- invoice address
- bank connection

Contact:

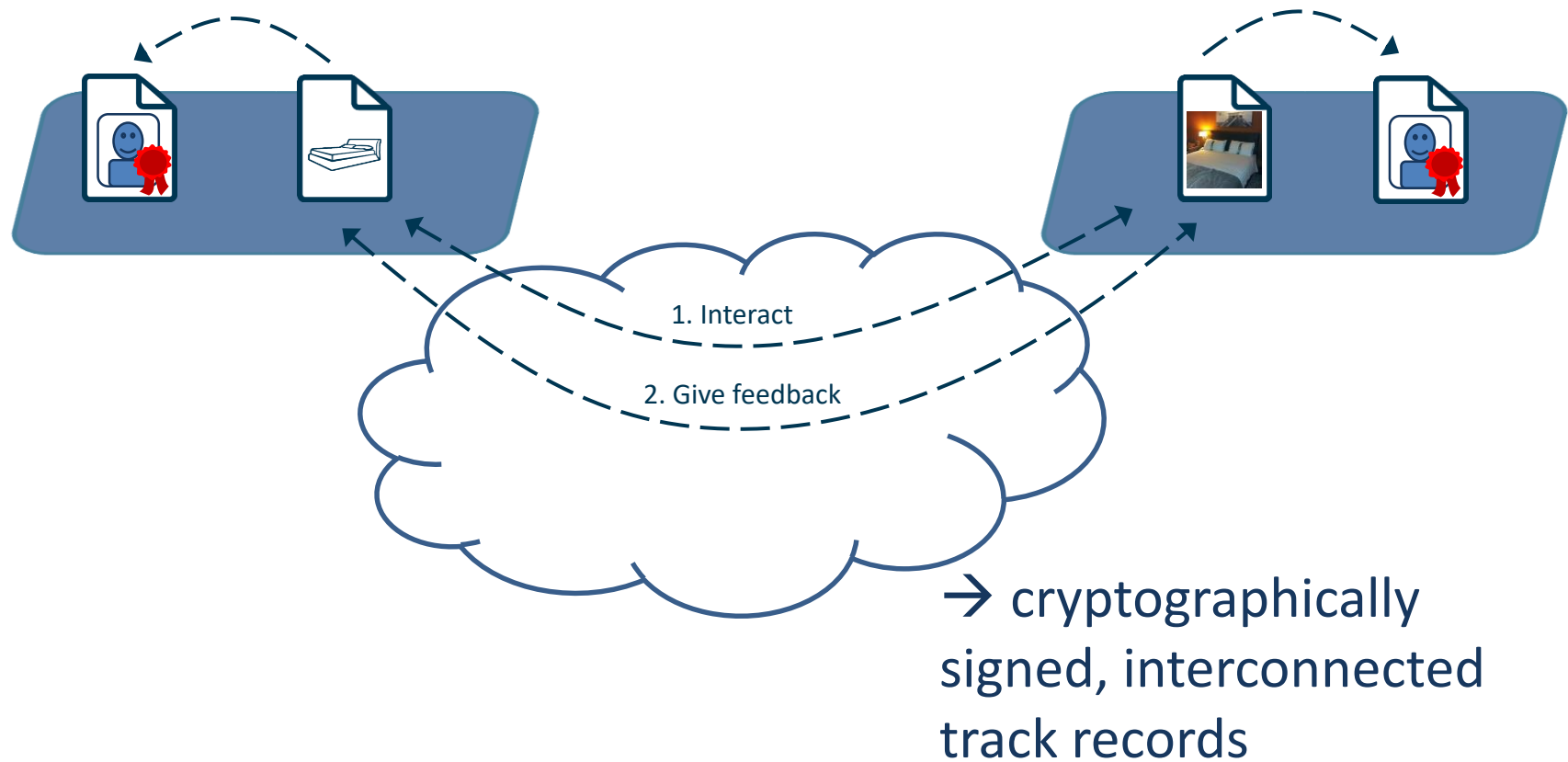
- email
- phone

→ WebAccessControl

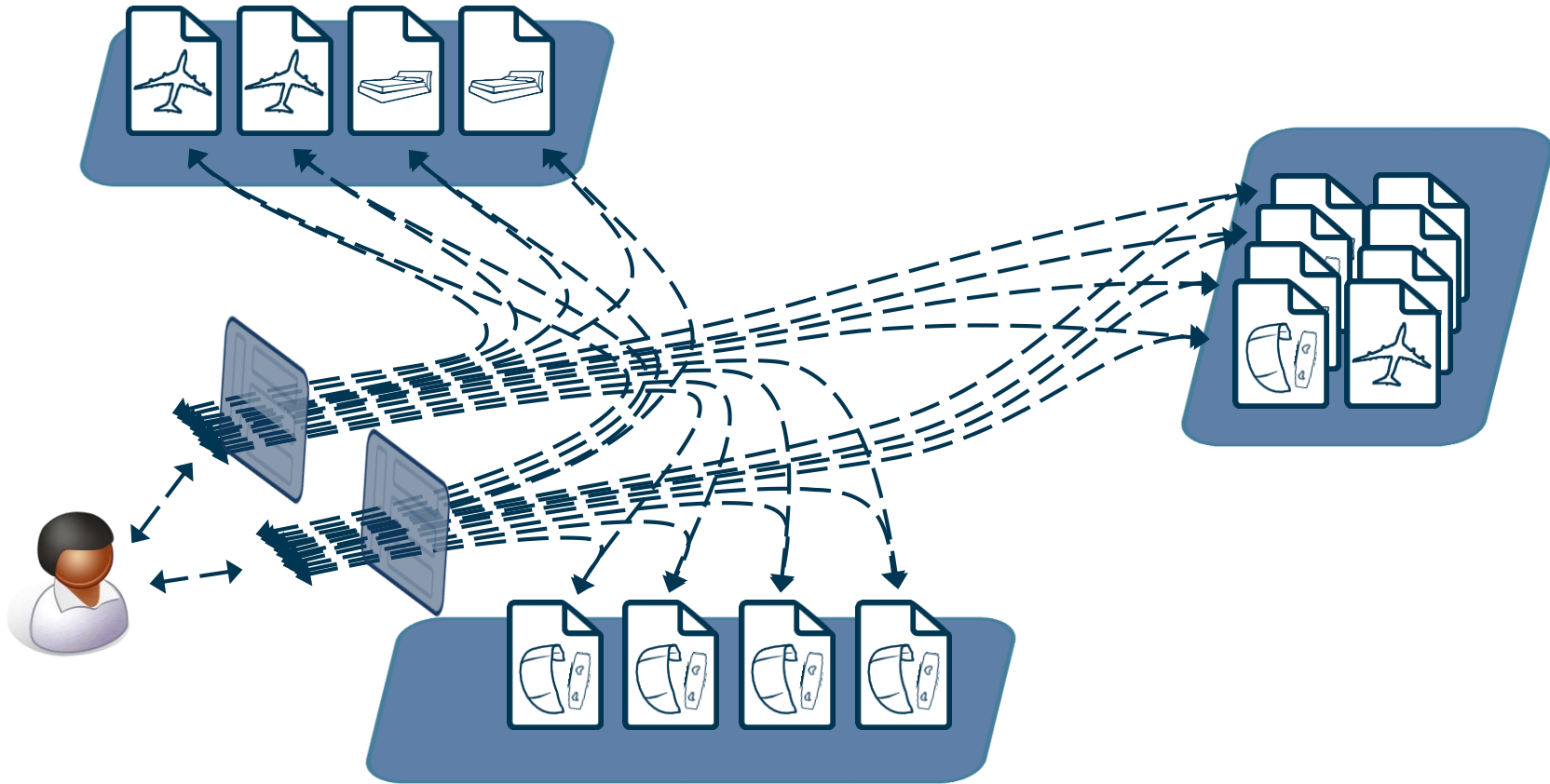
Trust Layer



Trust Layer



Thin Clients



Management of Combinations

