

Universal Name System (UNS)

Global and unified cryptographic namespace
for person and non-person entities

Universal Certificate Authority (UCA)

Global and automated cryptographic infrastructure
to solve code and data provenance, integrity,
authenticity, confidentiality and privacy

DNS + CAs

Domain-centric

Entities are **mere resources** in domains

Bolted-on cryptographic security

Administered

Global “Zero Trust” **impossible**

UNS + UCA

Entity-centric

Entities have **independent existence**

Built-in cryptographic security

Automated and generated

Global “Zero Trust” **possible**

Enabled by Confidential Computing (TEEs)

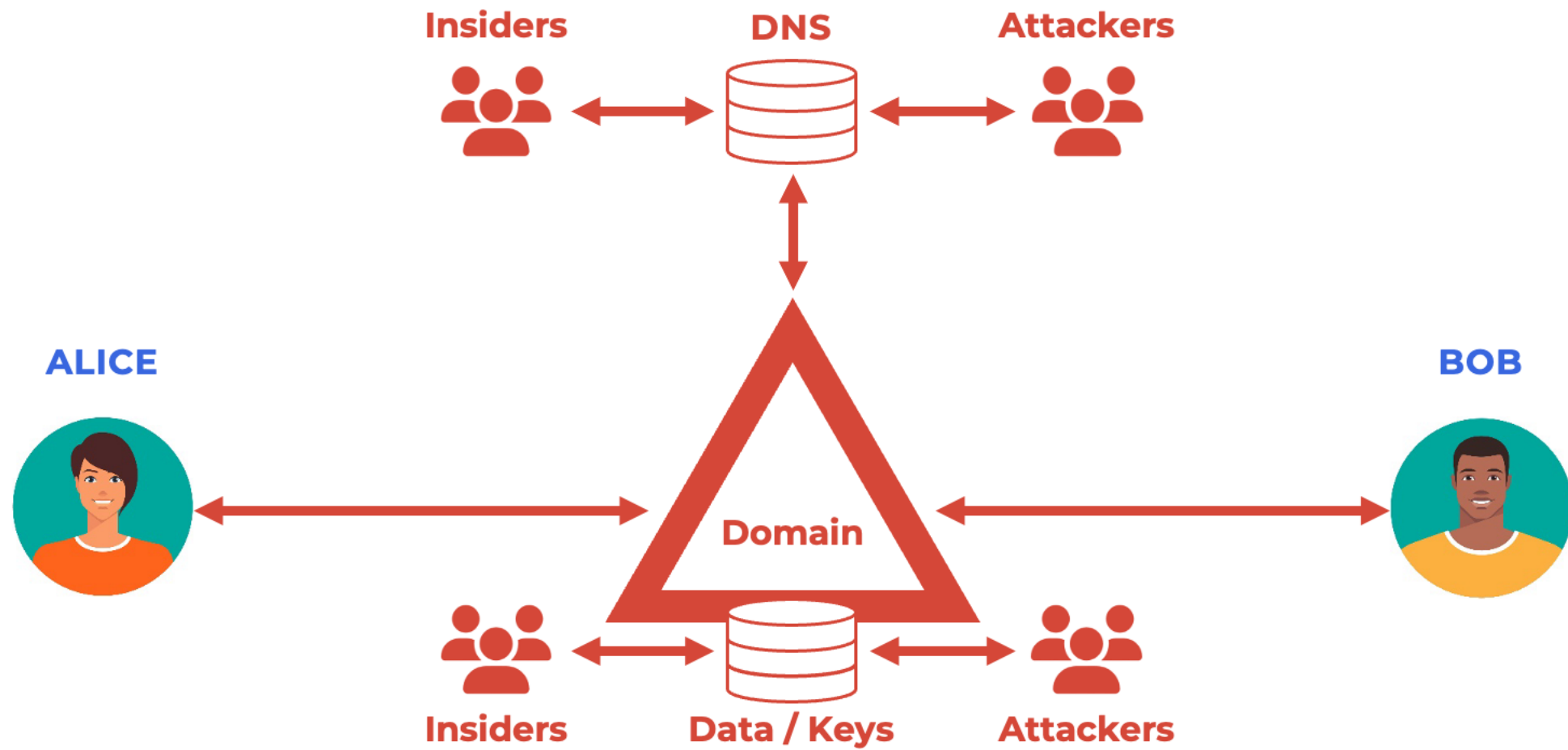
1. **Cryptographic protection of data in use**, even from system admins
2. **Remote attestation and verification** of HW and SW authenticity
3. **Verifiable confidential entropy** for decentralized cryptography

World Wide Weaknesses

#1 – Privileged insiders

#2 – Weak relational links

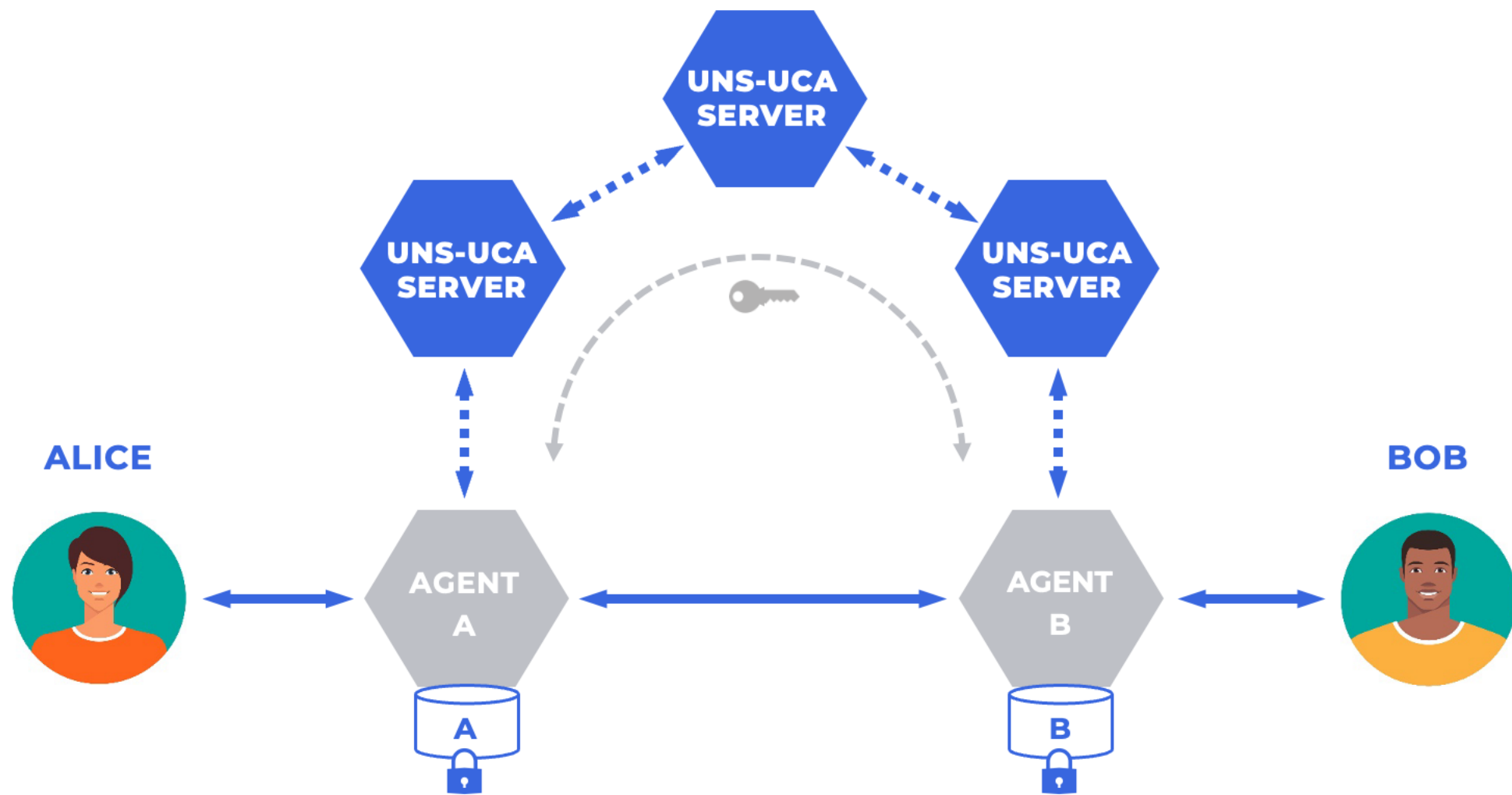




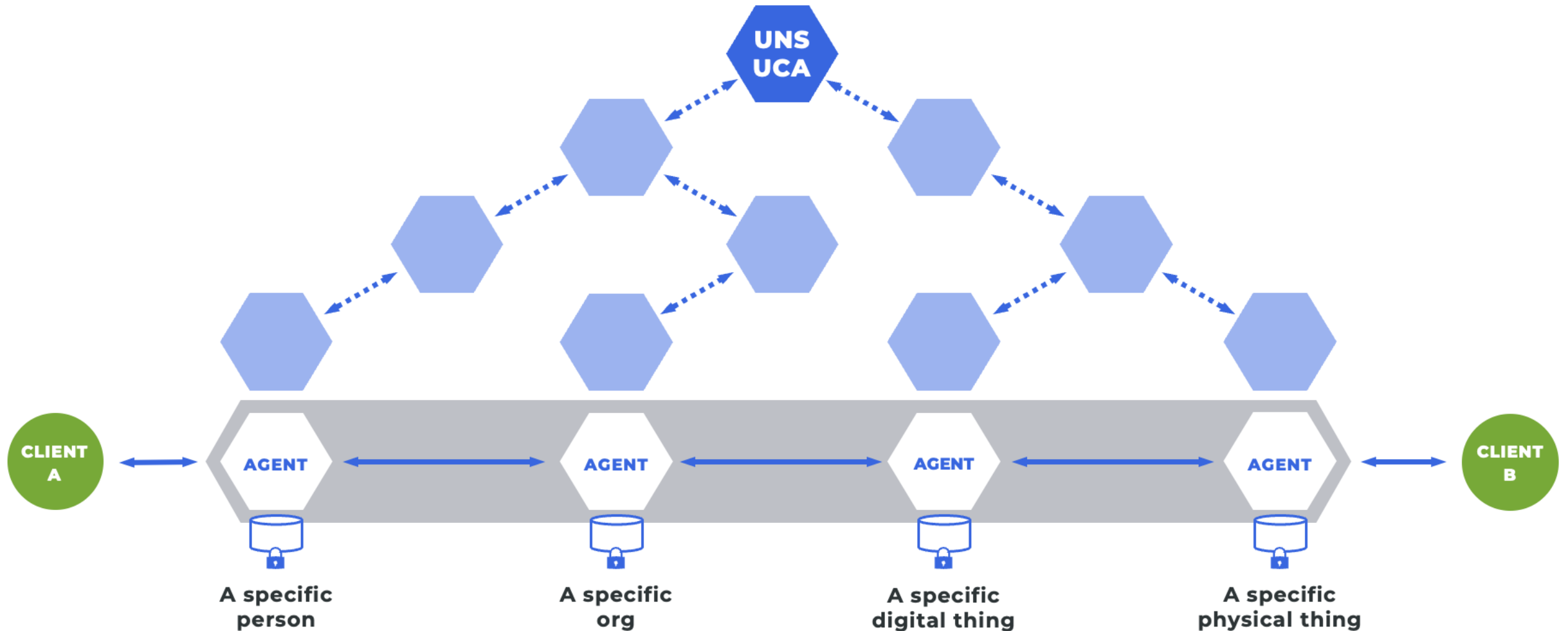
Domain name / path / resource

Entity StemID # relationship # keyname

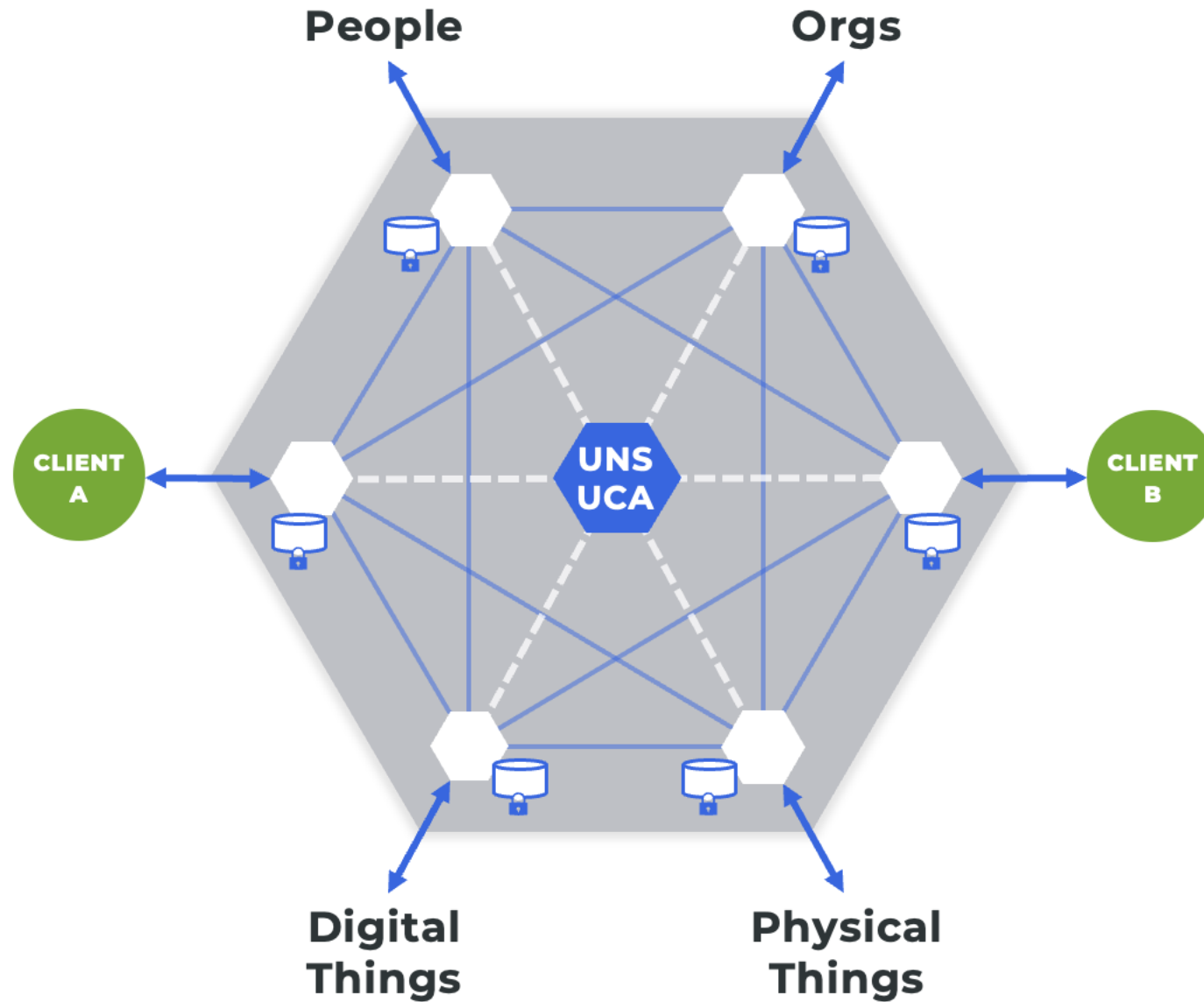
is the HMAC key derivation function



Chaining entities (not blocks)



Fully automated, no humans in the middle



Present and discuss this work

Figure out where in IETF this work should go

Starting coalition for **global and neutral governance**

Side Meeting in **Palmovka 1/2** on **Monday @ 14:00**

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