

Semantic Identifiers and **Decentralized** **Reputation**

Identifiers in IoT

- Device Identity (DI)
- Role Identity (RI)
- Plumbing Identity (PI)
- Semantic Identity (SI)

<https://mailarchive.ietf.org/arch/msg/core/T0hMGnYi4T5Uws4jAczmUqCUnuM>

Identifiers in IoT

- Device Identity (DI)
 - Temp Sensor KY-4711
- Role Identity (RI)
 - room451.zone2.catamaran.hotel
- Plumbing Identity (PI)
 - room451.zone2.catamaran.hotel
- Semantic Identity (SI)
 - The room air temperature in Room 451 of Catamaran Hotel

IoT Altavista

- Put in SI
- Get back PI, RI/DI

How do I know which mappings are relevant?
Which mappings are **good**?

What is the equivalent of Page Rank?

IoT Altavista

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- Obvious: Put reputation information into a blockchain