Main Functionality

- Capabilities are communicable and unforgeable tokens of authority. A capability token refers to a value that uniquely references an object along with an associated set of access rights.
- Granular access control for things, agents, tenants, data consumers, at all levels. Eg. ENS parties all use capabilities.
- The IoT@Work capability-based approach supports: access right delegation, capability tokens revocation, fine grained access rights.

Main Advantages

- Finer granularity for giving rights to devices, applications or persons than classical role-based access control.
- Manageable creation of key capabilities based on well-defined roles, while able to delegate some of these rights in a limited and controlled way to other sub-agents.
- The principle of Least Authority (PoLA) is the default
- Less security issues (no Confused Deputy problem)
- Externalizes and distributes the authorization process