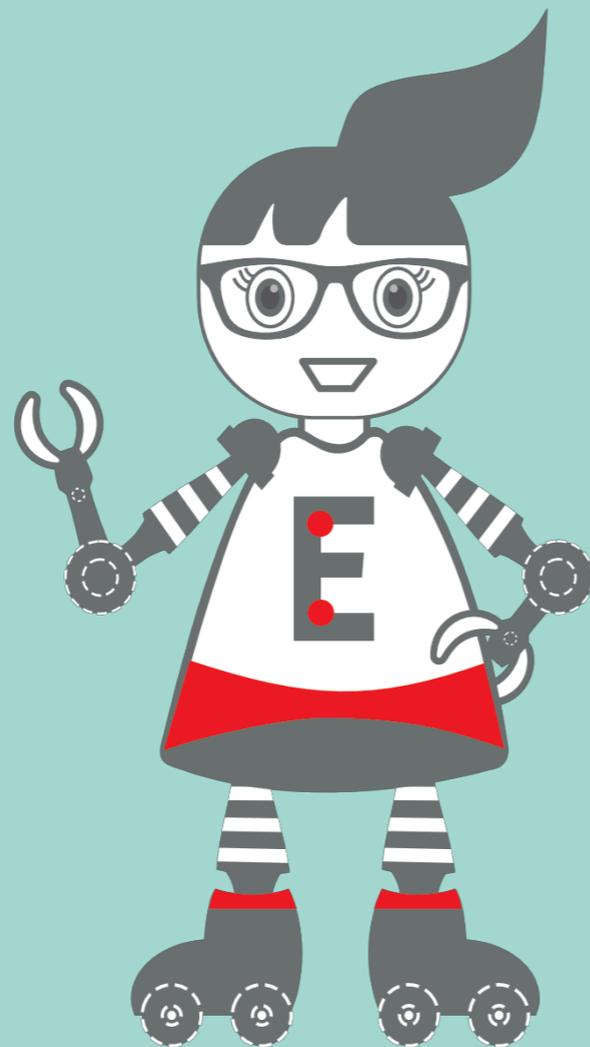
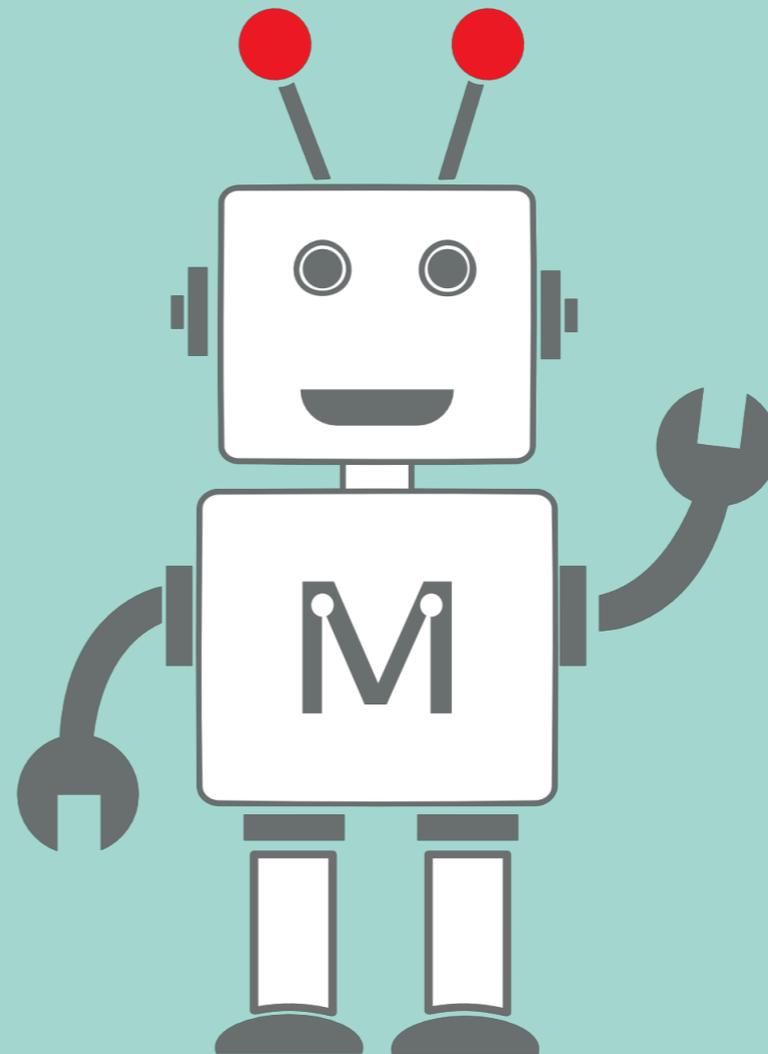


Neuro:pil

Secure Interaction for Things



ELIZA



MARVIN

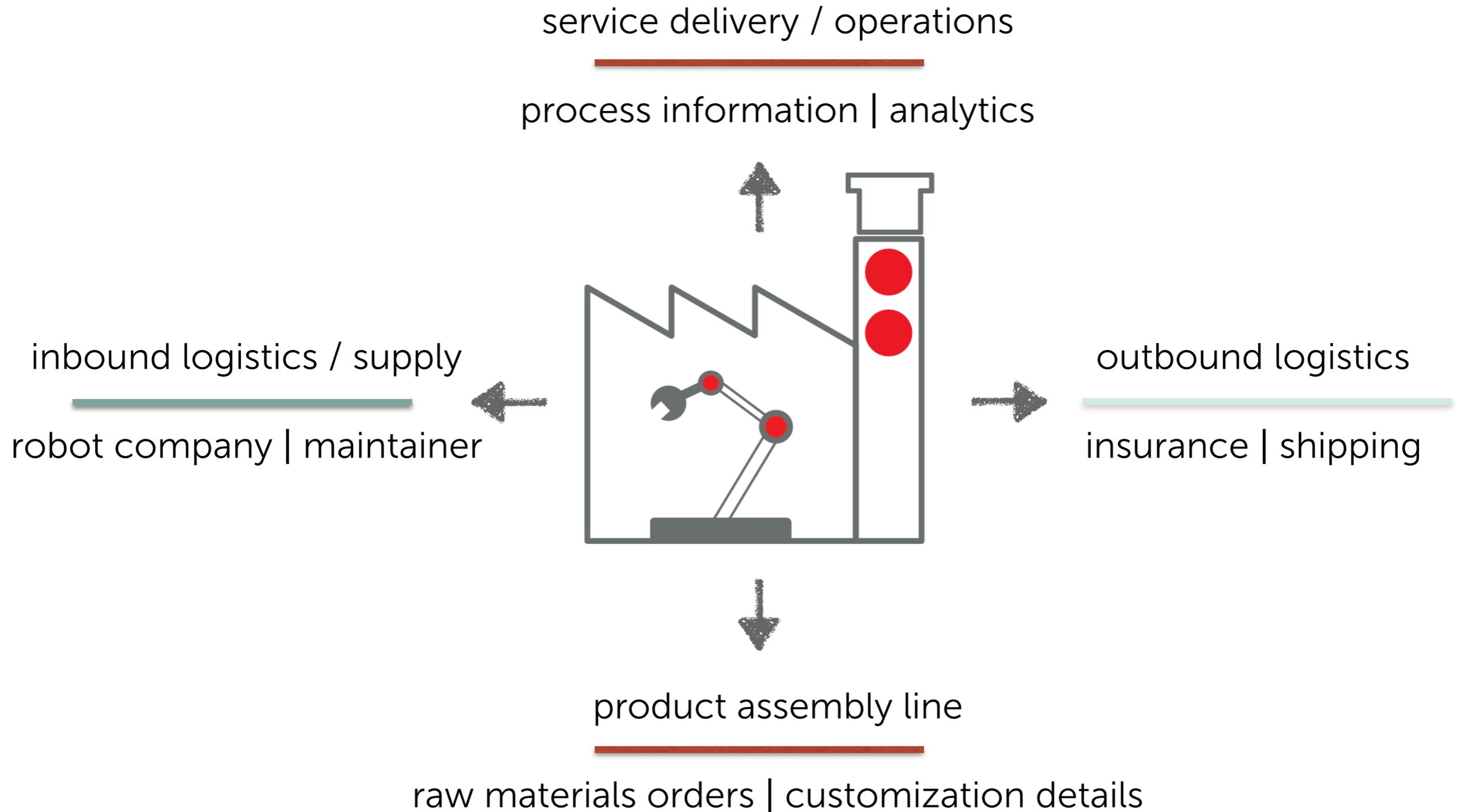
presented by: STEPHAN SCHWICHTENBERG @ FOSDEM 2019



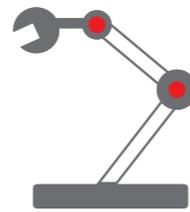
FIRST DE-CENTRALIZED IoT MESSAGING FRAMEWORK

- IoT / M2M messaging library (C99)
- small, scalable, secure
- decentralized
- security and privacy first and by design

N INTERACTION / FACTORY SETTING

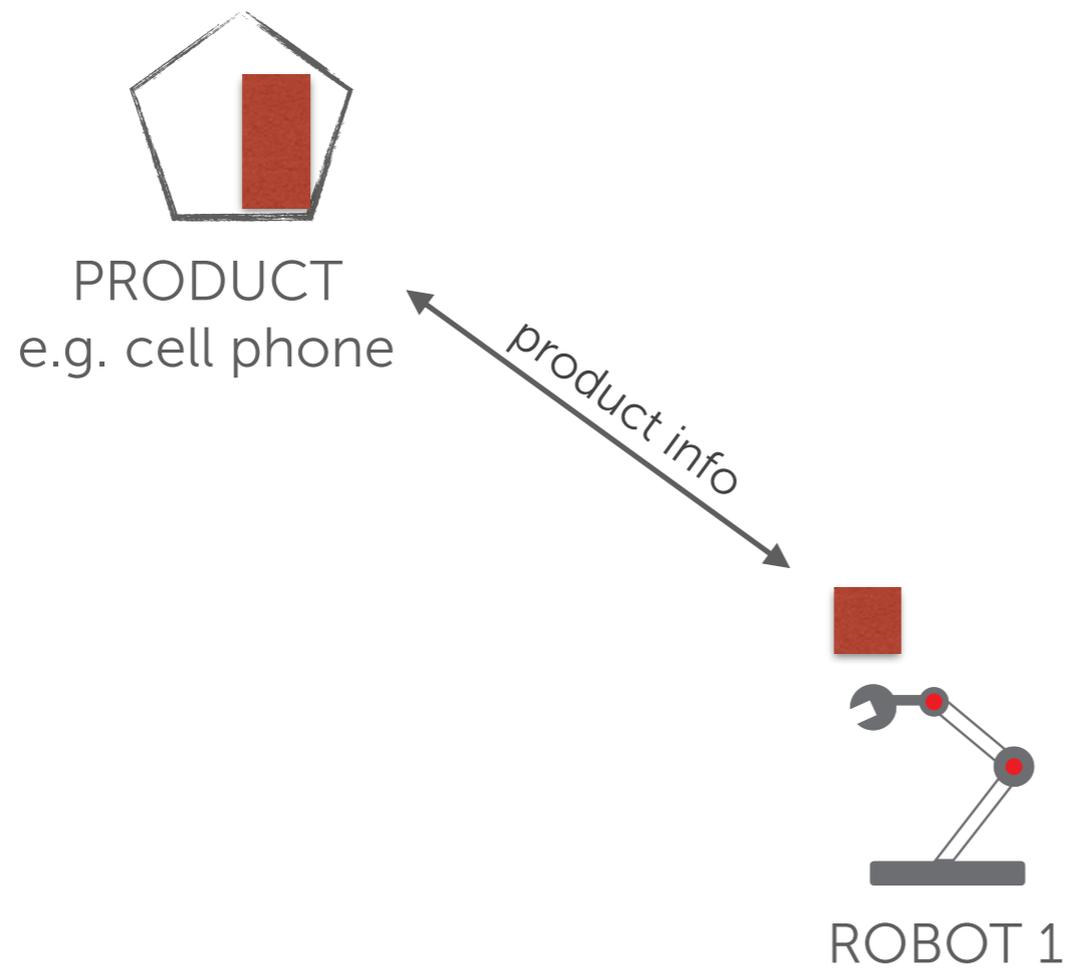


N MULTI DATA OWNERS PER DEVICE



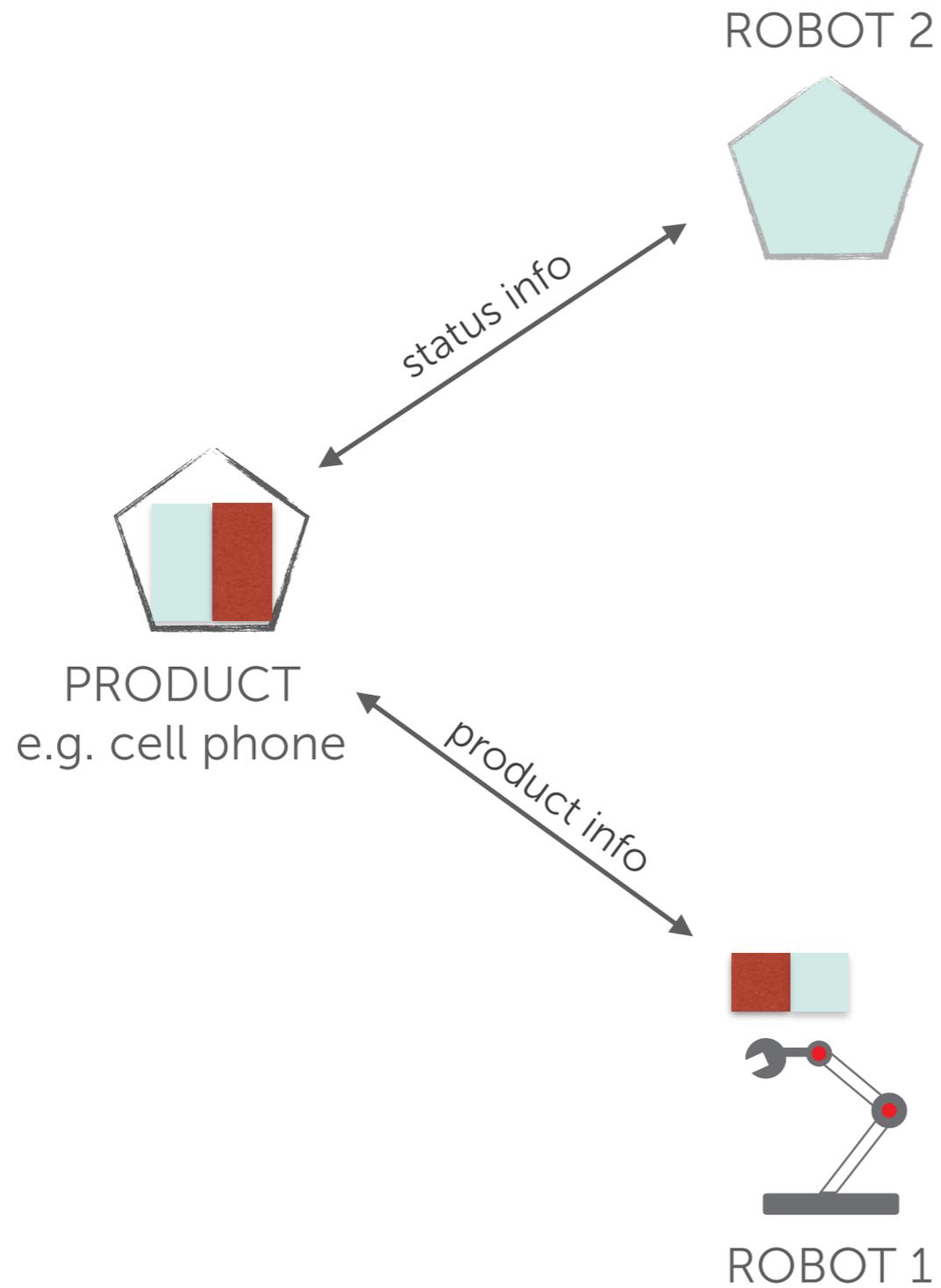
ROBOT 1

N MULTI DATA OWNERS PER DEVICE



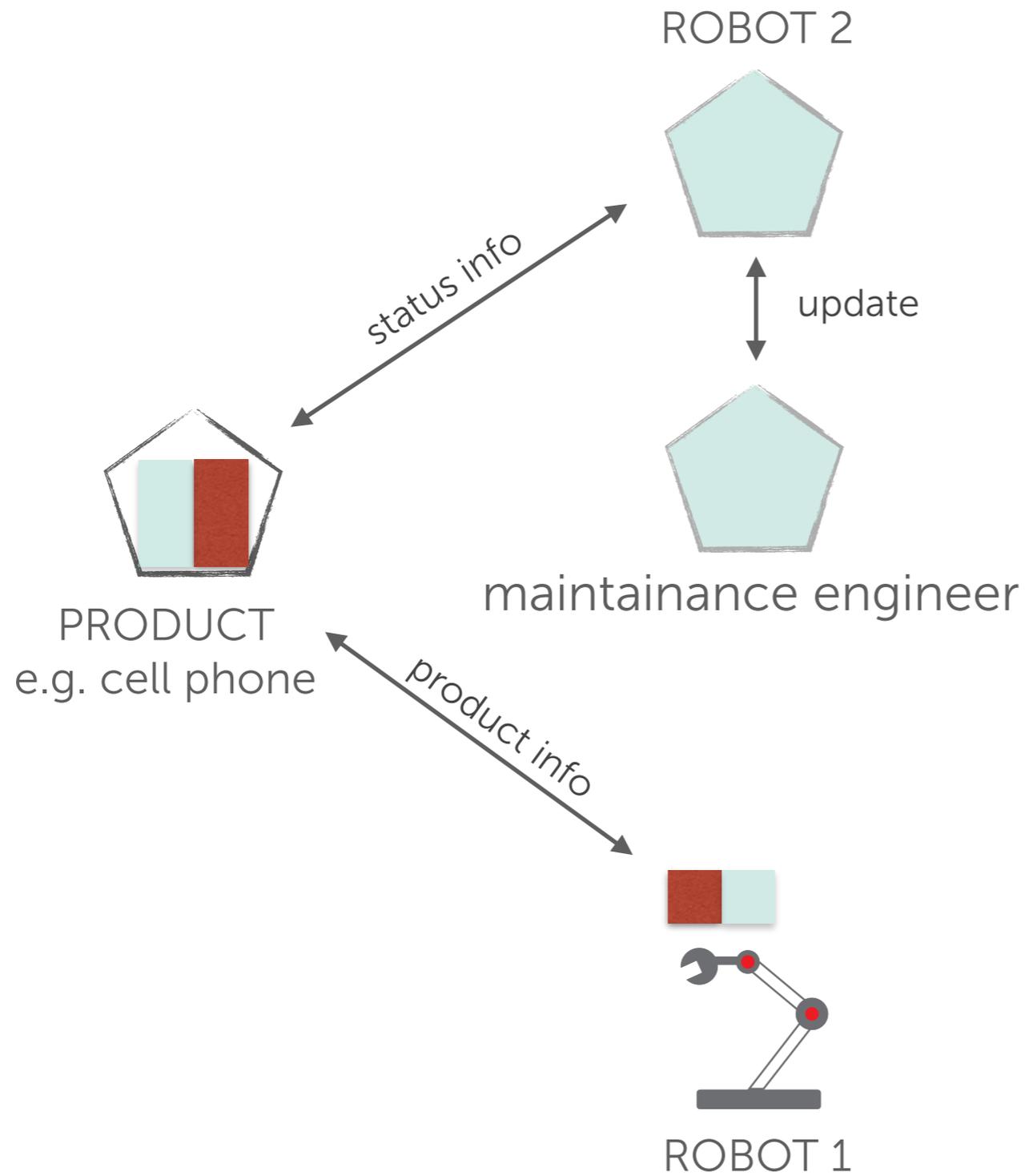


MULTI DATA OWNERS PER DEVICE



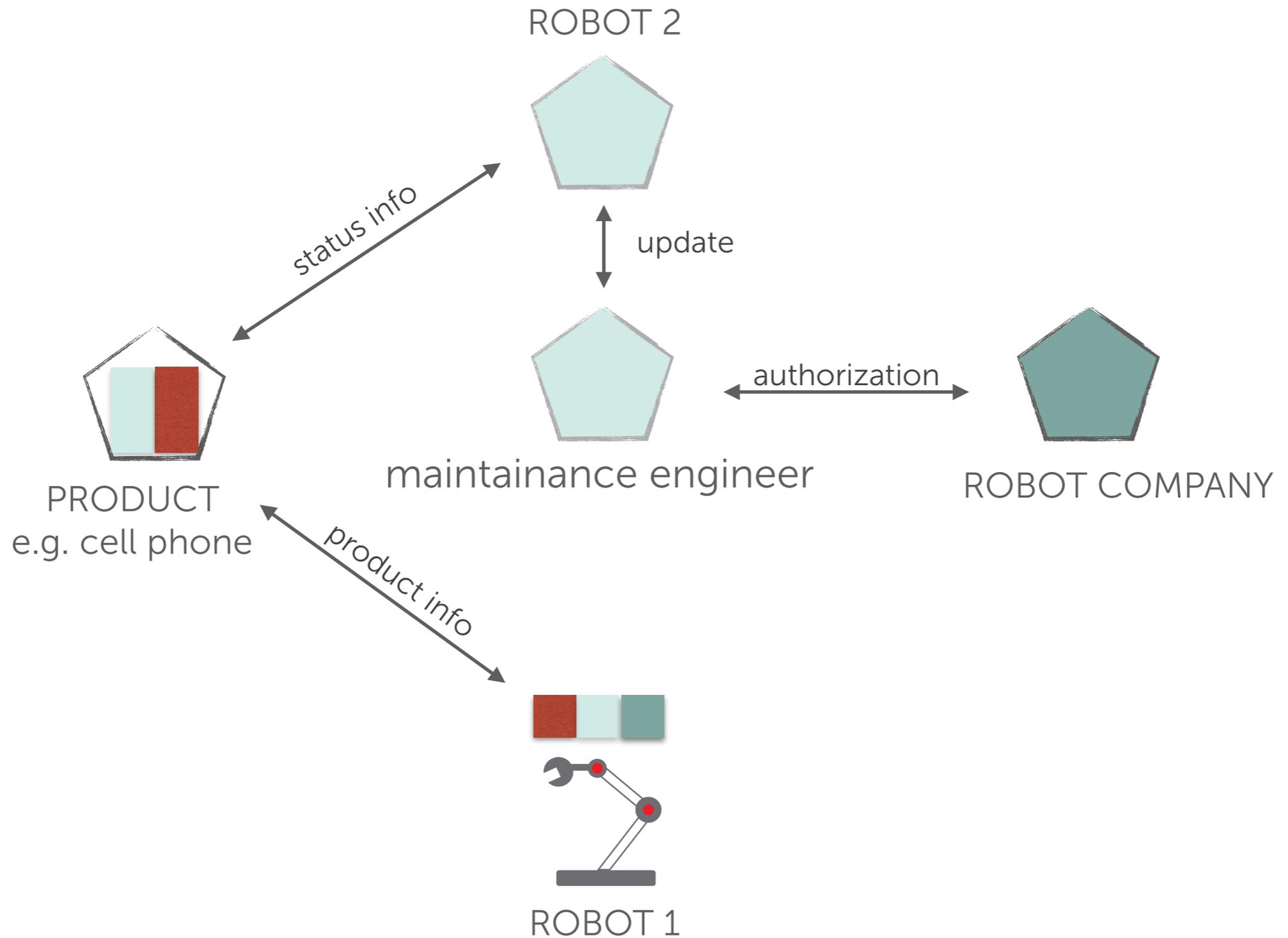


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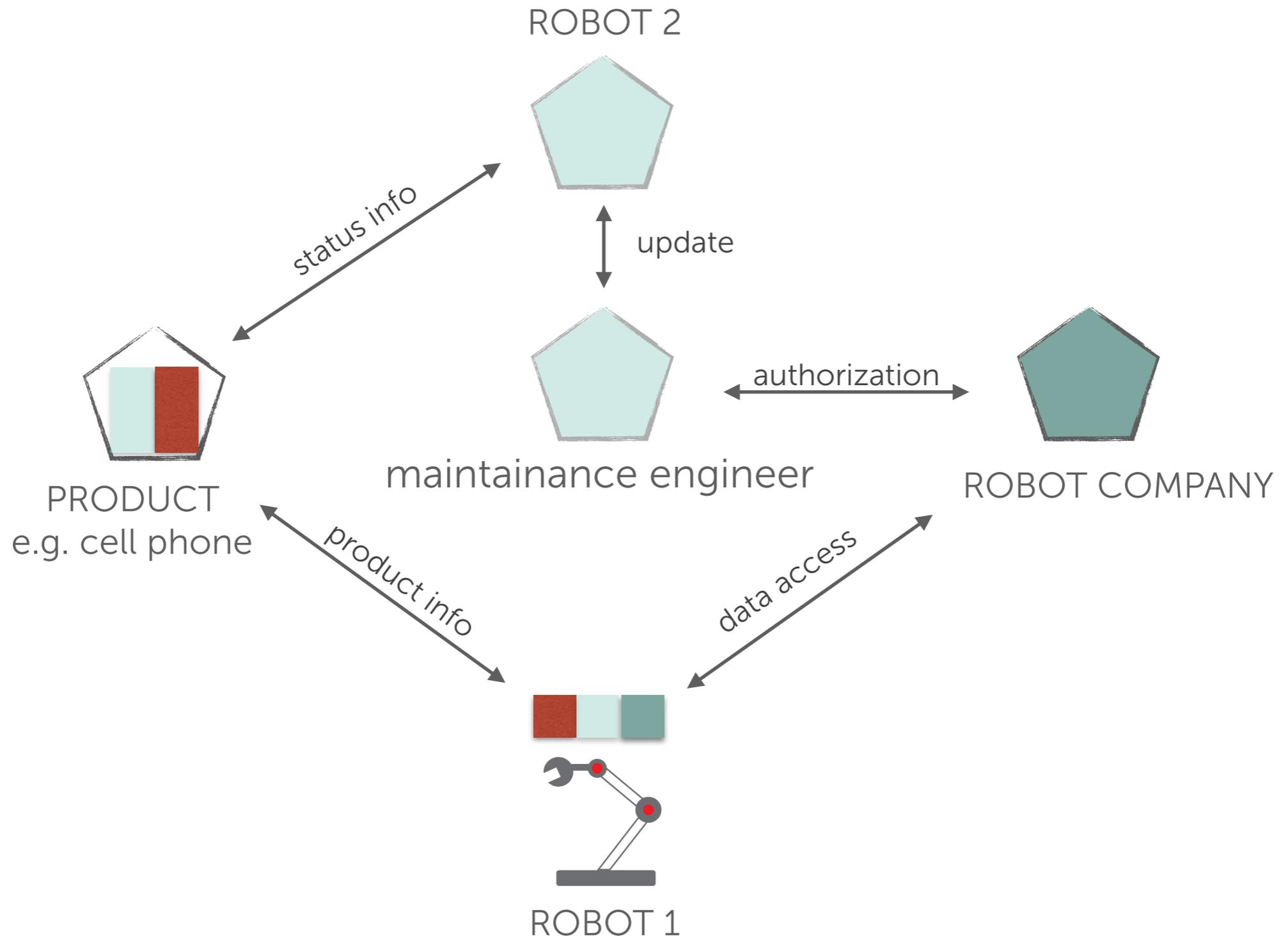


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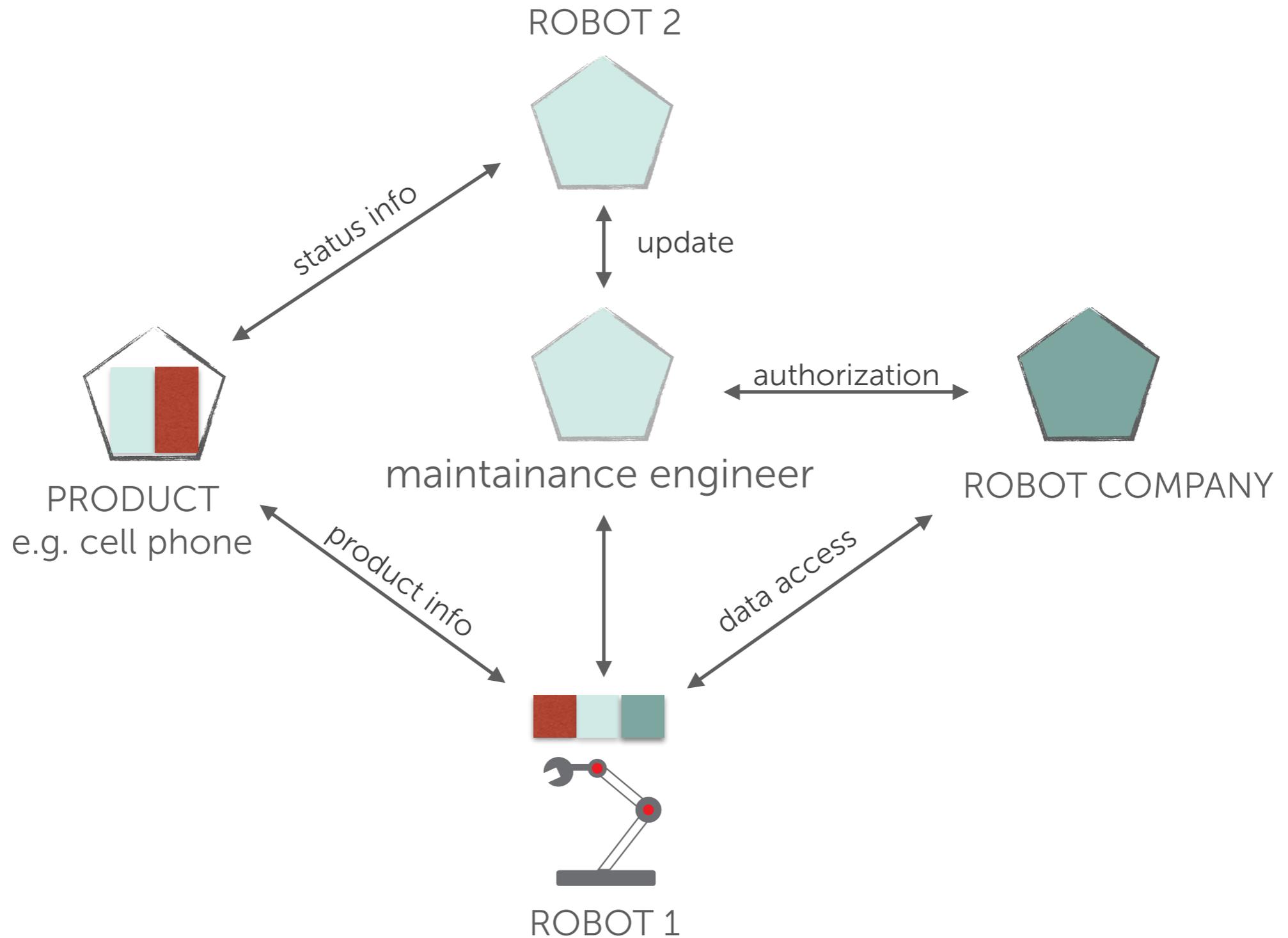


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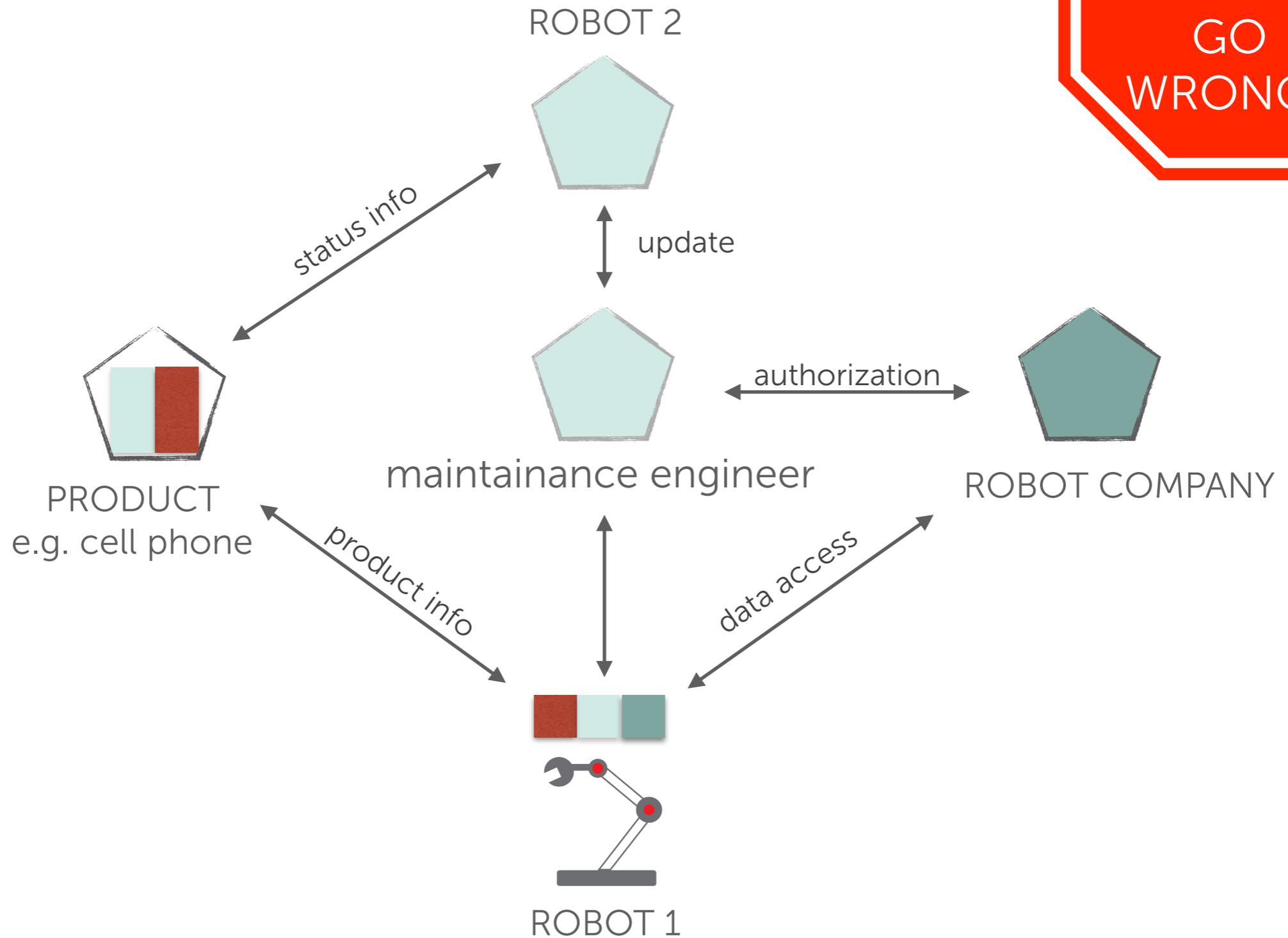


MULTI DATA OWNERS PER DEVICE

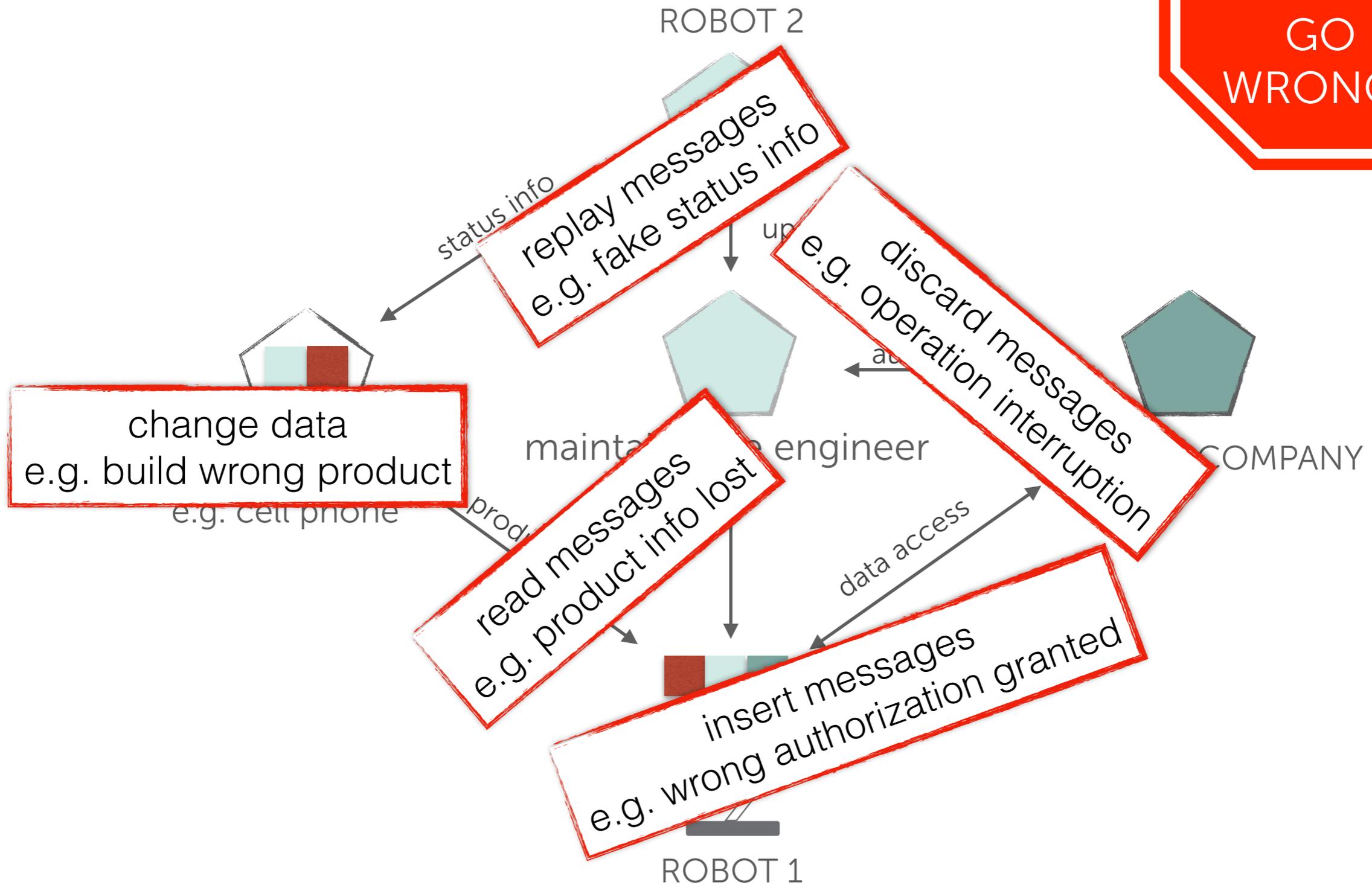




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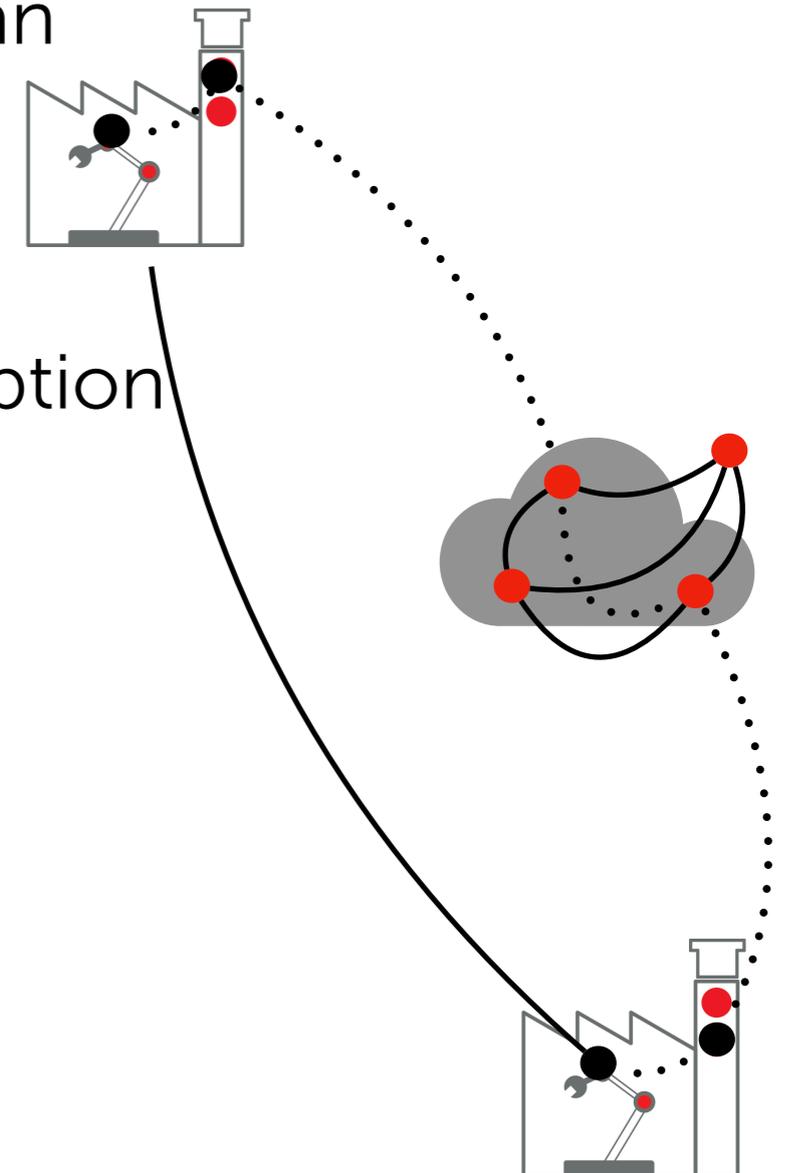
N MULTI DATA OWNERS PER DEVICE





FIRST DE-CENTRALIZED IoT MESSAGING FRAMEWORK

- digital identities
- attribute based distributed security and filtering
- decentralized machine interactions, human governance
- obfuscation of protocol metadata
- group encryption and payload data encryption
- at-most-once delivery / non-repudiation
- no single point of failure / attack
- multiple routes to target (based on DHT)
- ... and more ...



N REACHING THE NEXT LEVEL

Release 0.9, is newly available on GitHub. What we're working on:

- growing open-source community
- cooperations, ie.: use cases, pilots projects
- candid feedback, questions

Let's get together and have a chat now or contact us:

Stephan Schwichtenberg

<https://github.com/pi-lar/neuropil>

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www.neuropil.org

Neuro:pil
Secure Interaction for Things

