Teserakt

Company presentation — 20180908

Mission

Make strong encryption a standard for IoT

Remember how insecure were the first mobile messaging applications? Now even WhatsApp uses solid end-to-end encryption. We want to drive a similar shift to strong encryption for IoT and machine-to-machine communications.

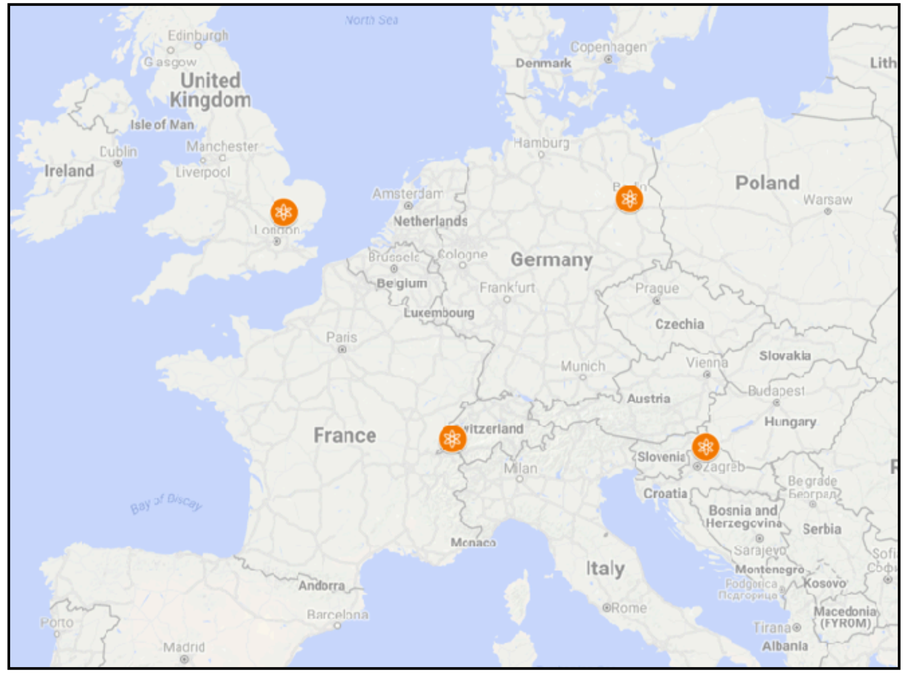
Teserakt AG

Founded in August 2018

HQ in **Lausanne, Switzerland**

Specialists based in:

- Berlin, Germany
- Cambridge, UK
- Varazdin, Croatia



Seed funded, fully owned by founders

Founders

Jean-Philippe Aumasson

Leading cryptography expert, PhD, author of the reference book Serious Cryptography, designer of widely used cryptosystems, speaker at leading international conferences. 12 years experience in applied cryptography in academic and industrial environments.

Alan Duric

Serial entrepreneur, secure digital communications pioneer, co-founder of leading secure messaging application Wire (CTO then CEO), co-founder of Camino Networks (acquired by Skype), co-founder of Telio Holding, contributor to IETF, ETSI, and ITU standards.

Problem addressed

Machine-to-machine (M2M) security

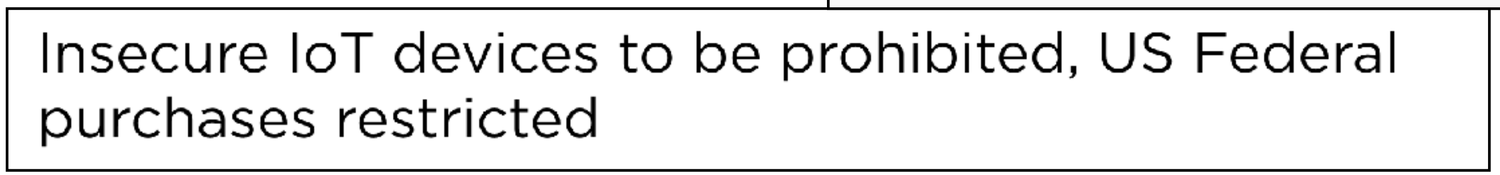
Hard because of:

- **Physical limitations**: Chip frequency, memory, network latency, bandwidth, storage space
- **Inadequate tools**: Legacy systems such as TLS and PKIs, built-in crypto is weak or inexistent
- **Key management**: How to securely provision keys to devices, avoid global keys, rotate keys?

Why bother?

Protect business and privacy-sensitive data that transits on third-party/cloud infrastructure

Enable new applications and use cases so far impossible because of the data breach risk



First product: E4

MQTT encryption done right, software-only

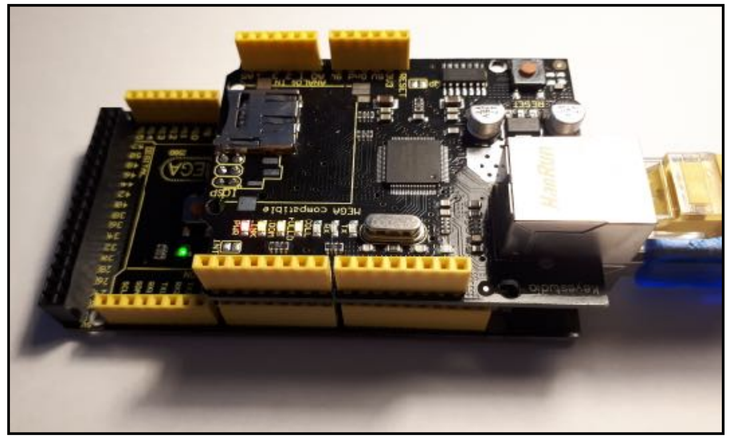
MQTT is the main IoT/M2M protocol, industry standard

- Used in connected cars, drones, power plants, etc.
- The only IoT protocol supported by cloud platforms

First product: E4

Client software
Encryption layer between transport layer and business logic layer.

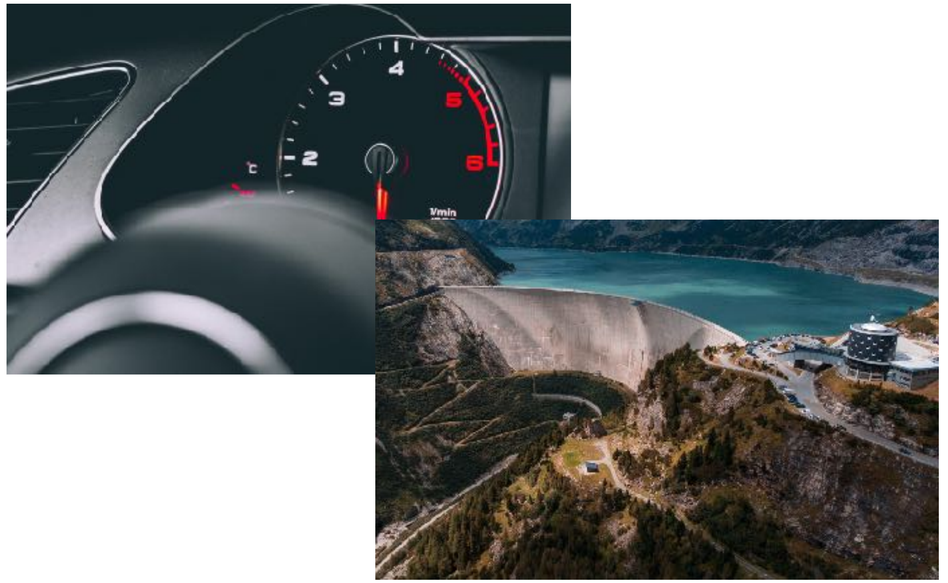
Key management server
Remotely manages keys, automates key rotation, via web UI and CLI tools.



Industries

MQTT used for M2M transmissions in:

- Automotive, V2*
- Healthcare
- Oil and gas
- Transportation
- Supply chain
- Energy, smart grid



Sales model

Key management server:
- One-time fee (integration, license)
- Yearly M&S fee

Client software:
- Per-device license fee
- Depends on the device type and number

We can adapt our solution to other protocols than MQTT, please contact us for details.

Teserakt

Want to try our solutions or see a demo? Any questions?
Contact us at contact@teserakt.io