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Cédric GESTES

Tanker CTO

Former Director at ALDEBARAN Robotics
The need for security

Data leaks
Data tampering
Hardware theft
## Our landscape

<table>
<thead>
<tr>
<th></th>
<th>TANKER</th>
<th>CASB</th>
<th>DRM</th>
<th>ANTIVIRUS</th>
<th>DISK ENCRYPTION</th>
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Secure applications by design
Tanker is a SDK available on desktop, mobile and the web.
Tanker
Features
Protocol
Tanker

Features

Protocol
Tanker ensures **confidentiality** and **authenticity** of resources among a defined set of parties.
Parties can be **users** or **servers**
Parties can have multiple devices

Each device has its own private key
Actors work on resources

A resource represents a piece of data

It protects any type of data:
- A document
- A record in a database
- ...
Resources can be shared
Tanker

Features

Protocol
Integrate Tanker with your system:

- PKI
- Active directory
- OpenID
- SSO
Recovery

Balance perfect privacy and user experience

<table>
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Security Best Practice

SYMMETRIC KEYS
CHACHA20/POLY10305

ASYMMETRIC KEYS
ELLIPITIC CURVE: CURVE25519

ALICE

BOB

TANKER SERVER
Chain of accountability

- Tamperproof
- Verifiable
- Blockchain alike
- Decentralized data ownership
All communications are forward secure
Each data version has a new key
Tanker

Features

Protocol
A blockchain references:

- users’ devices
- resources

It is append only
Register a Trustchain on Tanker’s website
A new block is created with the Application key

The key will be used to validate new user additions
Integrate the **SDK** into your application
New user additions are signed by the application
New device additions are signed by another device.
Resource sharing

Each resource share is logged to the Trustchain
Thank you!
Questions
Appendix