EcoG



Disrupting domains since 1989, the Web hits EV charging

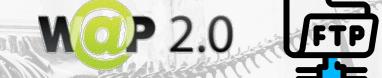
Outline

- → Natural selection: Domain technology vanishes
- → The dark future of IIoT: A forest of silos?
- → Case Study: EV charging domain
- → The promise of WoT
- → Wrap-up

The web disruption: Survival of the fittest











Net News Transfer Protocol







Occam's razor of green field IT

If not bound by other factors, every new IT software project

will by default choose

- a web frontend as user interface

and

- a REST API as B2B interface.

IIoT: a dark forest of silos?

- Domain Silos
 - OPC UASHU
 - Bacnet
 - IEC 61850
 - OCPP
- Vendor platform silos
 - gRPC
 - AWS IoT
 - IBM Bluemix

EV Charging domain: OCPP



- current version 1.6J switches from SOAP to application-specific JSON-messages
- Several stations have a single connection to central of the charging operator
- Focus on Monitoring & Control
- 56 fixed Message types for interaction

EV Charging domain: A Multi-stakeholder System



EV Charging domain: Promises of the Web

seamless IT integration

In-Field connectivity

single sign-on payment calenders maps parking sensors cashier/POS the vehicle's IVI the user's mobile

Web ecosystem

75% of all developers are web developers

Rapid application development

the Long tail a.k.a the sum of niches



The Web of Things in IIoT:

It sprouts at the boundaries

but will evolve the core

Backed by





SIEMENS

Ingenuity for life

Supported by Project Partners







EcoG

Monetization Engine for EV Charging

founders@ecog.io

one more thing... using React.js?

https://www.npmjs.com/package/react-wot

https://github.com/EcoG-io/react-wot



```
<WoTProvider>
 { things.map(thing =>  { thing.title } ) }
 <Button onClick={this.loadThing()}>Load a thing/Button>
</WoTProvider>
loadThing = () => {
  const { WoT } = this.props;
  const res = await fetch('http://some.thing/td');
  const td = await res.text();
  const thing = WoT.consume(td);
  this.setState({things: [thing, this.state.things...]});
export default withWoT(App);
```