ATENDE SOFTWARE
innovation factory

Company presentation

Atende software – innovation factory

10 years on the market
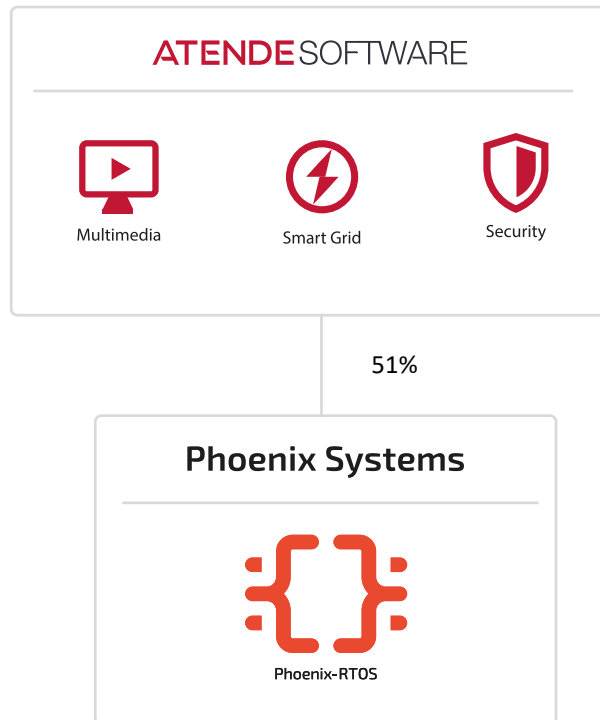
>100 software engineers
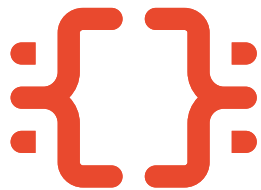
>10 000 000 technology users

Mission

Atende Software is addressing the ongoing technological shift, creating systems that are ahead of market trends. The company focuses on topics like: AI, IoT, big data, Smart Grids and develops its own technology.

Capital Group

Our brands

Phoenix-RTOS

redGalaxy

redGrid

redGuardian

besmart.energy

ActiveBlocker
Effective protection for NFC cards

Our customers/partners

besmart.energy

- **Platform dedicated for microgrids & energy clusters**

- AI based prediction models - prediction of energy consumption, production and cost

- AI based module supporting decision-making in power exchange and trading

- AI based predictive maintenance

- Distributed object storage for time-series data

- High-resolution weather forecasting model

- **Open hardware next generation smart meter project** (based on RISCV64 and KPU – Kendryte K210)

besmart.energy
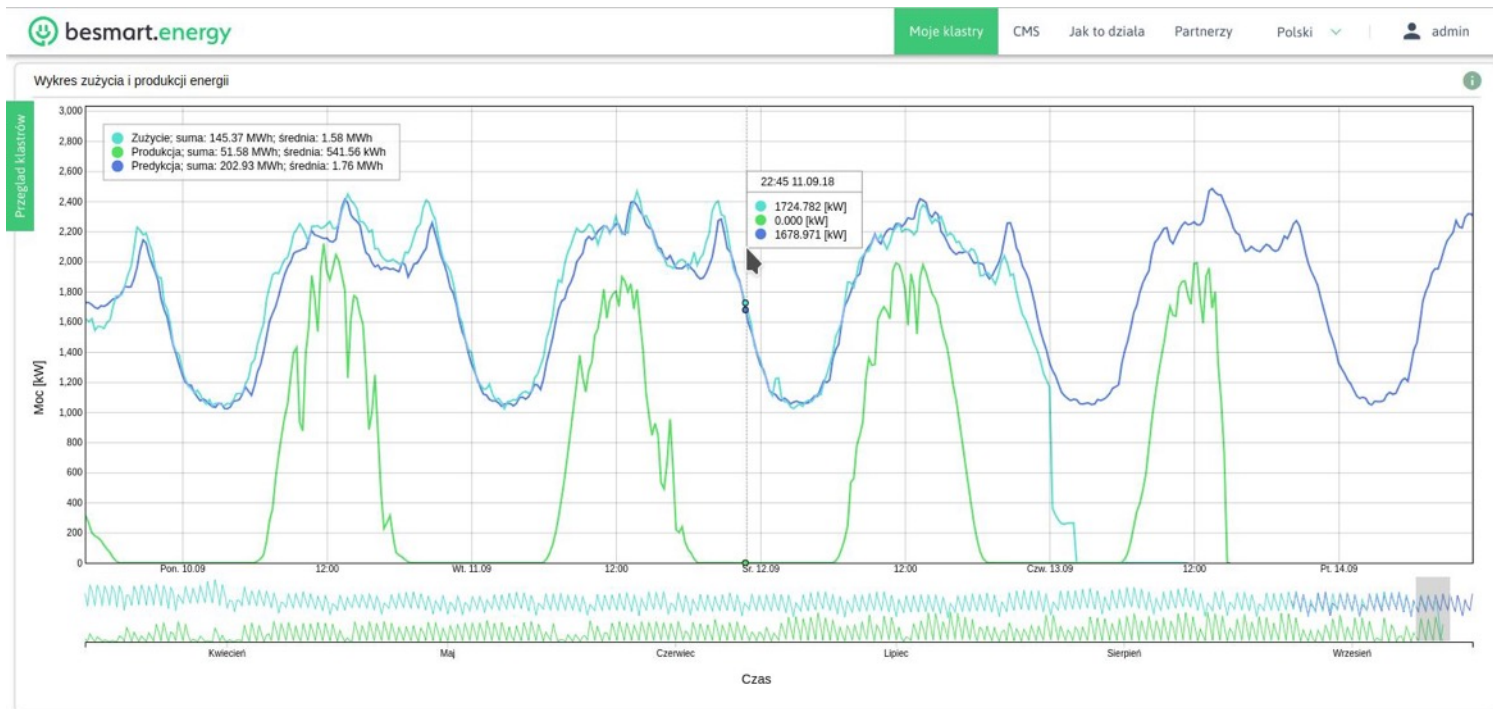
redGuardian

- **Software-defined, distributed system protecting against DDoS (Distributed Denial of Service) attacks**

- Able to fend off the world's largest attacks (0.5 Tbps)

- The most efficient system in its class (100 million packets per second on a single server)

- Used by Polish leading datacenter operator, Polish Parliament, the largest Polish insurance company

- **Looking for partner for local applications**
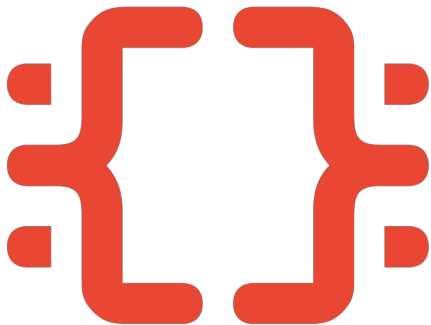
Phoenix-RTOS

Phoenix-RTOS

- Real-Time Operating System (RTOS) designed for next generation IoT appliances

- **Simplifying development of advanced devices distinguishing itself with efficient architecture, scalability and advanced functionality**

- With the development launched approx. 20 years ago, Phoenix-RTOS prides itself with outstanding source code simplicity (coding best practices), scalability and effective application environment

- Proven reliability with applications completed in the Smart Grid segment and tangible plans to deploy Phoenix-RTOS into new sectors, addressing the market comprising over 25bn devices

- Communication stacks and application frameworks addressing the needs of multiple IoT sectors and comprehensive IT environment allow for further development of metering devices and data concentrators

Phoenix-RTOS implementations

❶ Andra comander amiDC-3 (Poland)

- PRIME DCU and balancing meter
- PRIME Alliance certified BN
- Energa-Operator network implementation
- Quantity: 30K
- Implemented 10K, 20K in production

❷ Incotex DCU (Russia)

- DCU and balancing meter
  (PLC PRIME, G3-PLC)
- Fulfilling requirements for Russian market
- Quantity: 60K
- Targeted also for other markets in Asia and Middle East

❸ Apator-Metrix iSMART1 (Italy)

- Software defined smart gas meter (certified)
- W-Mbus, ZigBee interfaces
- Quantity: 2M
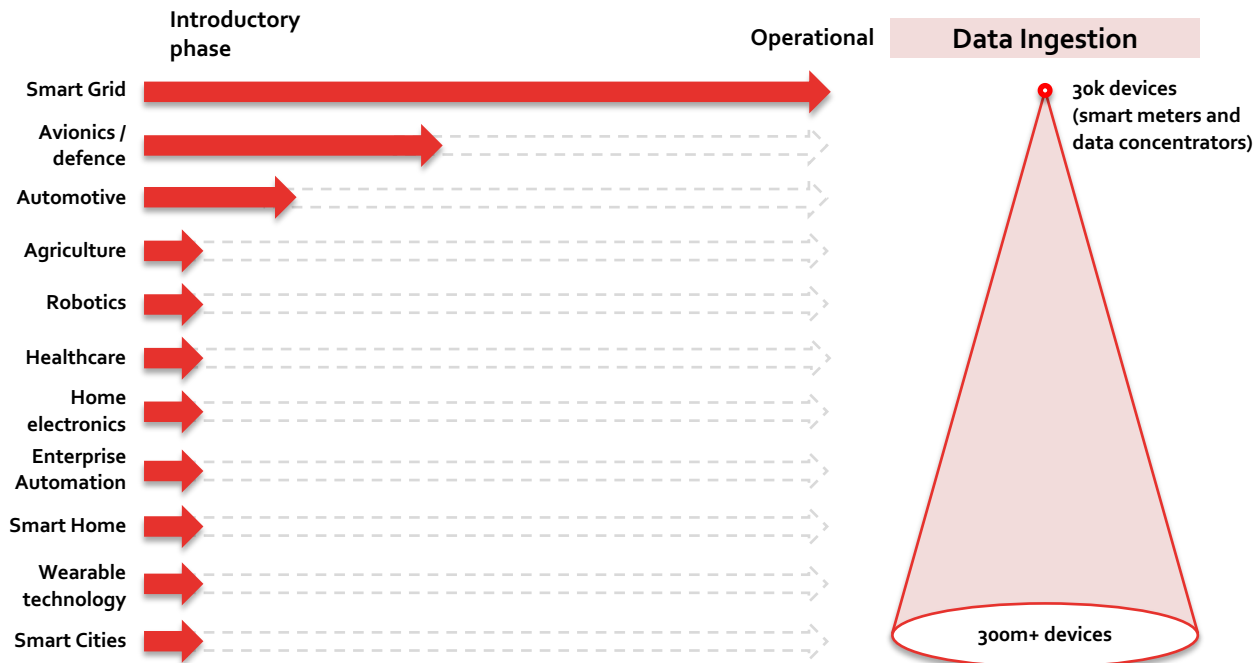- Targeted also for other markets due to high modularity

❹ Saiman SDM 1, SDM 3 (Kazakhstan)

- Software defined smart energy meter
  (PLC PRIME), class 0.5
- USB interface
- Implementation in Almaty power grid network
- Quantity: 200K
- Short manufacturing series tests in progress (150 meters)

Phoenix-RTOS functionalities have been proven in numerous smart metering devices

Targeted Segments

Introductory phase — Operational

Data Ingestion

- Smart Grid
- Avionics / defence
- Automotive
- Agriculture
- Robotics
- Healthcare
- Home electronics
- Enterprise Automation
- Smart Home
- Wearable technology
- Smart Cities

3ok devices
(smart meters and data concentrators)

3oom+ devices

With the support of potential partner, Phoenix-RTOS would be able to accelerate the development of frameworks targeting every segment of IoT, quickly expanding number of controlled devices

Phoenix-RTOS business model and positioning
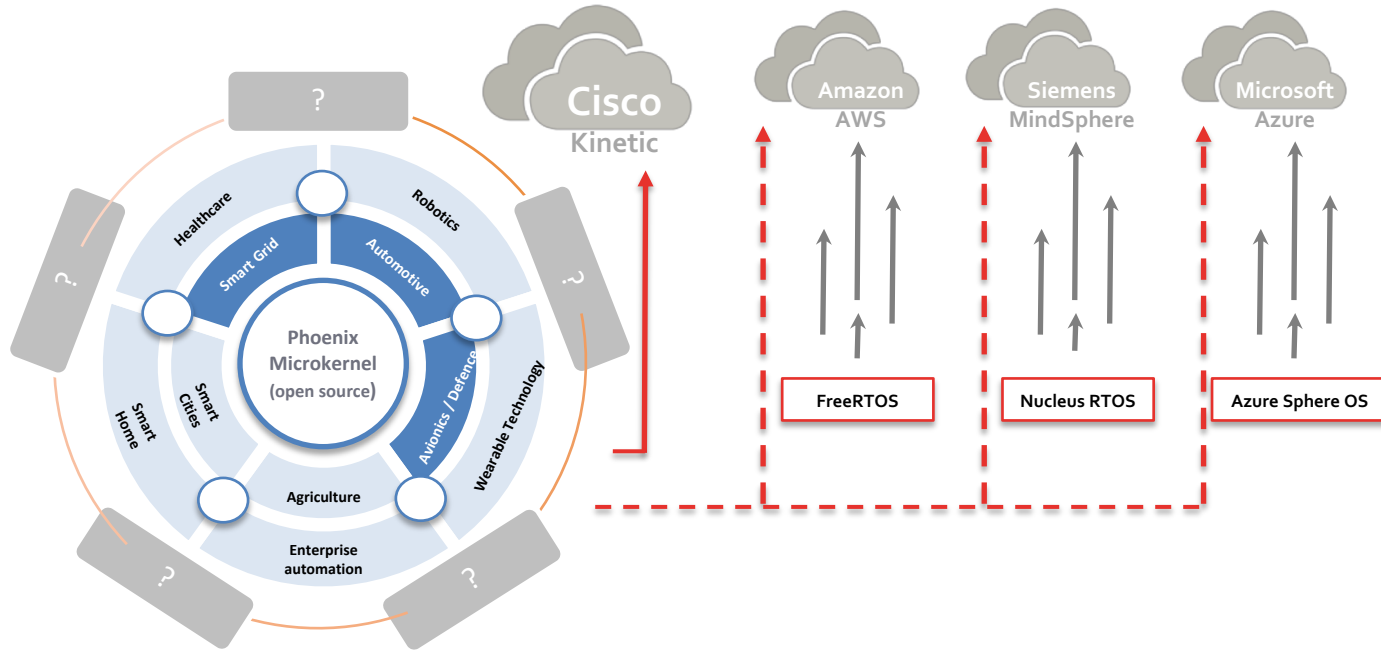
Phoenix-RTOS could be established as a market standard for a variety of IoT applications

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