



# Versinetic

versatile ev charging solutions

# EV History of Versinetic's parent company ByteSnap



## ■ BYTESNAP

- **Multi-award-winning electronics design consultancy**
- **Integrated team of software & hardware engineers helping companies create their next-generation tech**
- **Created GUI, metering, control and communications board for GE Durastation for the London Olympics**
  - ✓ **Single or Dual socket, single or three phase options**
  - ✓ **Communications by GPRS or Ethernet**
  - ✓ **Later added OCPP 1.5 support**
  - ✓ **Supported manufacture of subsequent batches**



**“Everything worked perfectly, as it has through all the bulk testing done at every site.” Geoff Chapman, Director, ChargePoint Services**

# EV History of Versinetic's parent company ByteSnap

OCPD Module for V2G Consortium (2018-20)

- Award-winning Innovate UK project with 3 other consortium partners
- Backed by Office for Low Emission Vehicles (OLEV) and Department for Business Energy and Industrial Strategy (BEIS)
- VIGIL (Vehicle-to-Grid Intelligent Control)
- Developed communications adaptor for Vehicle-to-Grid/Building (V2G/V2B) systems & mobile app
- Initial Versinetic products created and tested in real-world operation.





# Versinetic

versatile ev charging solutions

**Versatile Intelligent Kinetic** (dynamic energy) = Versinetic

## Next Generation Smart Charge Point Solutions

We work with:

- ✓ Electric vehicle charge point manufacturers
- ✓ Electrical companies looking to move into the EV charging sector
- ✓ Innovative tech start-ups\*, academic institutions\*

\*Subject to minimum order quality

# Versinetic – what we offer

- **Design Concept: consultancy, feasibility studies**
- **Solution Design: core product components, core software module**
- **Supply Options: Charging Blox – building blocks of software, hardware and consultancy which give total flexibility in creating a custom solution to meet your spec**

# Charging Blox- as easy as 1-2-3

## 1

### HARDWARE

Pick your hardware

Supply Options

**MANTARAY, EEL,  
LINKRAY**

**Modules, e.g. display,  
RFID, LED, PIR,  
\*contactless payment**

## 2

### SOFTWARE

Pick your software

Supply Options

**OCPP 1.6 / 2.0\*\***

**\*\*\*Back Office**

**\*\*\*\*CSMS Driver**

**Local Controller**

**CSMS Controller**

## 3

### CUSTOMISATION

Tailor to fit your  
requirements

**e.g. BEMS integration**

**3<sup>rd</sup> party protocols**

**Hardware modifications**

\*6 week lead time | \*\*2.0.1 in development | \*\*\*partner solution with Saascharge  
\*\*\*\*8 week lead time

# Product profiles

## 1 MANTARAY

Smart charge point communications controller PCB board

## 2 EEL

Adaptable AC EV Charge Controller

## 3 SOFTWARE

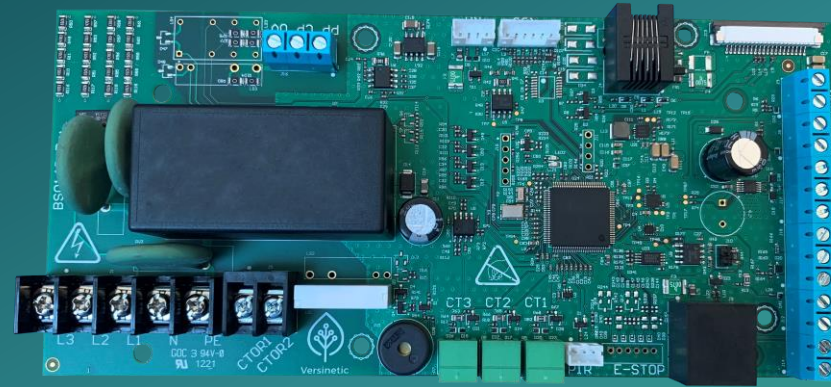
Smart Charging Point Software packages - OCPP 1.6 & OCPP 2.0

## 4 LINKRAY

Passive Local Controller



**MANTARAY:**  
Controls the intelligence



**EEL:**  
Controls the power



**LINKRAY:**  
Seamless local control  
of charge points



**PERIPHERAL BOARDS:**  
Including PIR, RFID RDC-DD

# SMART CHARGE POINT COMMUNICATIONS CONTROLLER

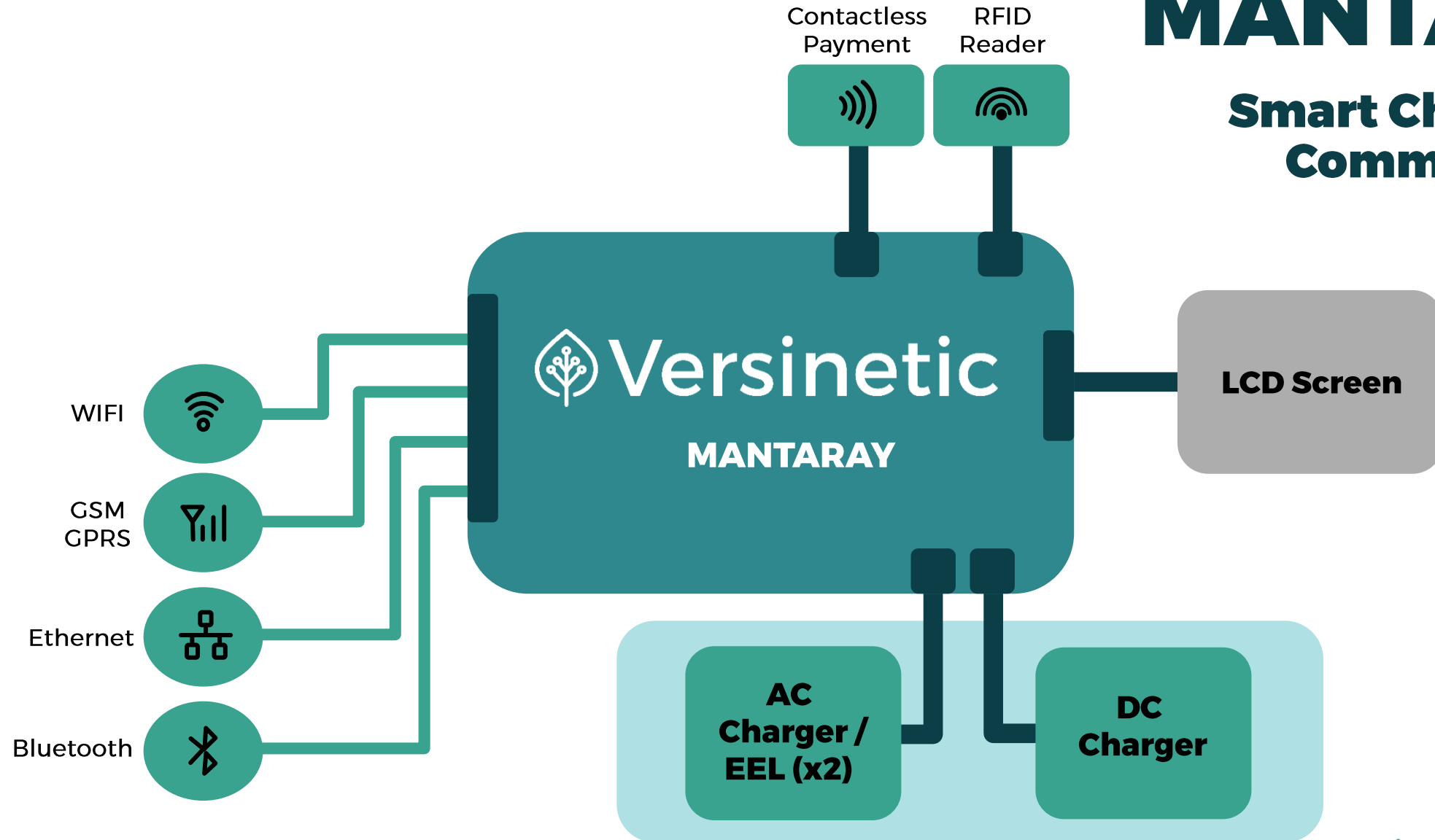
# MANTARAY

- **Small single board computer**
- **One MANTARAY can control multiple EELs**
- **Communicates with a back office using OCPP 1.6 and 2.0 (updating to 2.0.1)**
- **Works with both AC & DC Chargers**
- **Can be remotely controlled by a web interface**
- **Comes with the OCPP software library**



# MANTARAY

## Smart Charge Point Communications Controller



## Adaptable AC EV Charge Controller

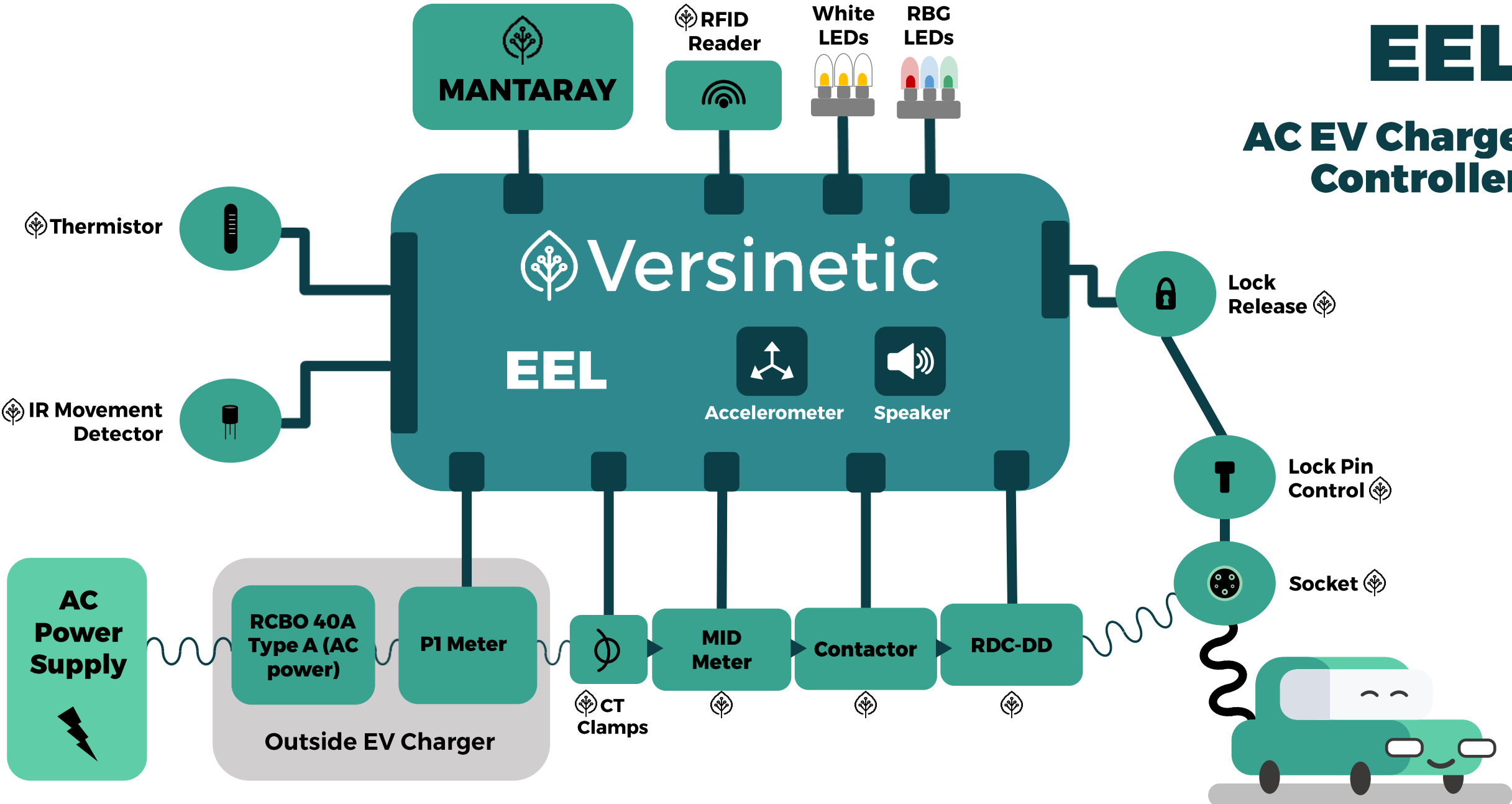
# EEL

- **Charge controller for vehicle**
- **Supports communications and safety**
- **Communicates with MANTARAY for smart charger functions**
- **Can be controlled using a simple protocol**



# EEL

## AC EV Charge Controller

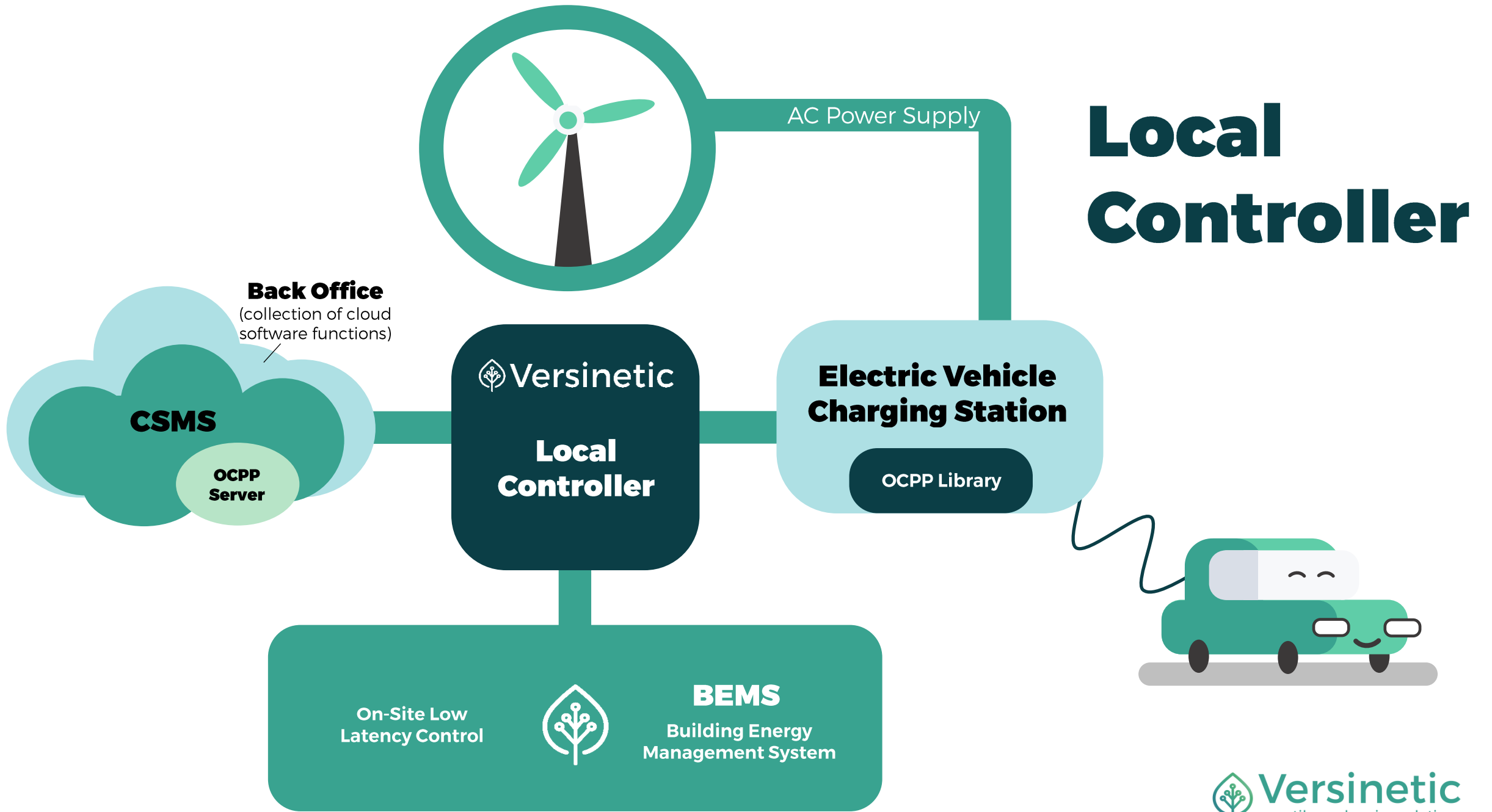


**Electrical load balancer**

# **LINKRAY - Local Controller**

- **Sits between a OCPP client (chargers) and the Back Office**
- **Relays messages between the two ends seamlessly**
- **Can inject OCPP messages to charge stations allowing local control.**
- **Accelerates load balancing with Building energy management stations or Fleet management**
- **Can be placed within an existing CSMS/CS system**





# Local Controller

# OCPP Software Library

- **OCPP client for OCPP 1.6 & 2.0**
- **Full implementation of OCPP 1.6**
- **Web interface for setup and installation**
- **Runs on Linux or QNX**
- **Required libraries: crypto, curl, dl, pthread, ssl. More will be needed for a GUI solution**
- **Tested with Has.To.Be, Saascharge and Allego back office solutions**
- **Tested at Open Charge Alliance Plugfests against the OCPP standards**

# What is... **OCPP?**

- **Open Charge Point Protocol**
- **Created by the Open Charge Alliance**
- **OCPP standards available to anyone for free**
- **An OCPP client (e.g. MANTARAY) will be able to talk to any OCPP-compliant CSMS (Charge Station Management System)**





# Why Versinetic?

**100%**

COMPLETED

What makes Versinetic stand out from other EV charge point consultancies?

- ✓ Deep technical expertise
- ✓ Competitive, versatile solutions
- ✓ Trusted, communicative engineers who get the job done





# Dunstan Power

MANAGING DIRECTOR



# Robert Meeks

BUSINESS DEVELOPMENT MANAGER



# Roland Bodlovic

TECHNICAL DIRECTOR



# Chris Hulland

FINANCIAL DIRECTOR

Let's optimise your EV system



# Versinetic

versatile ev charging solutions

[sales@versinetic.com](mailto:sales@versinetic.com)

[versinetic.com](https://www.versinetic.com)