

Expertise: Digital Solutions

Industries: Mobility, Energy, Logistics

Cloud-based solution optimises EV charging infrastructure maintenance



Overview of the partnership

Partners:	A customer in the charging infrastructure sector and Consat Engineering.
Objective:	To deliver a cloud-based, vendor-independent system for efficient maintenance and servicing of EV charging infrastructure.

A smart, cloud-based solution from Consat Engineering helped streamline EV charger maintenance, maximise uptime, and simplify integration across systems.

Challenge

The customer struggled to efficiently manage service and maintenance of charging stations from multiple providers.

Solution

Consat developed CMS – a centralised, cloud-based system for remote monitoring and optimisation of charging infrastructure.

Consat Engineering's cloud-based Charging Management Solution (CMS) helps organisations manage and optimise electric vehicle charging infrastructure. The solution improves operational efficiency, uptime, and enables the integration of new digital services.

A pragmatic partner

In close collaboration with the customer, Consat Engineering developed CMS – a flexible solution that enables remote monitoring and service management of charging stations, regardless of provider. Consat's pragmatic approach ensures the solution is both efficient and adaptable to evolving needs.

The challenge

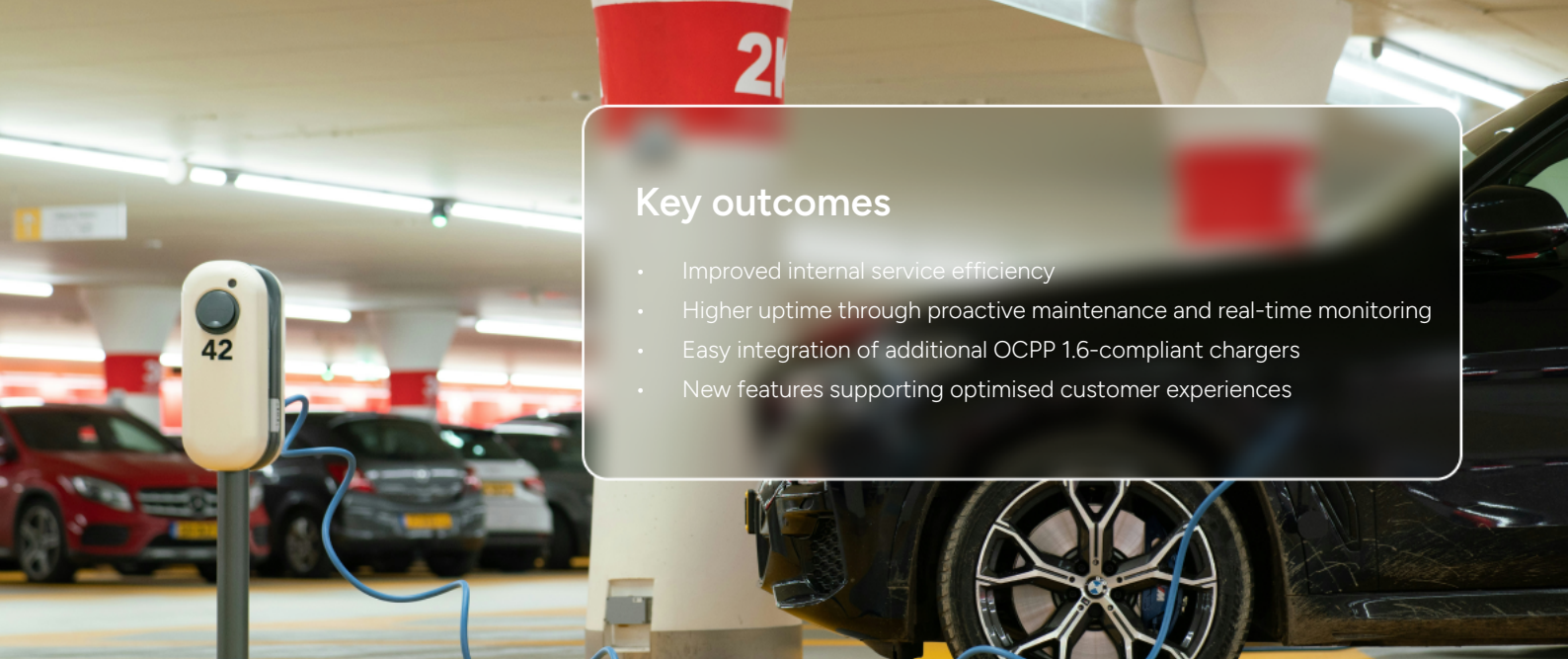
With charging stations supplied by multiple vendors, the customer faced considerable challenges in maintenance and service management. A unified solution was needed to effectively monitor, diagnose, and optimise the infrastructure.

The solution

Consat Engineering developed CMS – a cloud-based system allowing remote operation, capacity distribution, and real-time monitoring of charging infrastructure.

Key features include:

- Real-time monitoring and optimisation
- Remote diagnostics and service handling
- Load balancing
- Role-based access control
- Automated alarm functions
- Seamless integration of new chargers (OCPP 1.6)
- Built-in capabilities for advanced data analytics and AI



Key outcomes

- Improved internal service efficiency
- Higher uptime through proactive maintenance and real-time monitoring
- Easy integration of additional OCPP 1.6-compliant chargers
- New features supporting optimised customer experiences

Summary

- The customer required an efficient way to manage multi-vendor charging infrastructure.
- Consat's cloud-based CMS improved maintenance operations.
- The solution increased charger uptime.
- CMS simplified integration of new services and charging points.

The result

With CMS in place, the customer significantly increased operational efficiency within its service operations, ensured higher charger uptime, and enabled the delivery of new optimised services. Real-time monitoring and proactive service led to smoother operations and simplified integration of additional chargers.

Value-driven innovations

Consat's CMS provides a scalable solution that allows the customer to continuously evolve and optimise its charging infrastructure while opening up new opportunities for digital services and enhanced user experiences.

Contact us

Interested in discovering how Consat Engineering can support your organisation with scalable and value-driven EV charging solutions? Contact us today for more information or to schedule a demo.