



NXT Mobility Charge

Develop Successful E-Mobility Business Models

SOLUTION BRIEF / INTERNET OF THINGS

In 2020 and despite COVID-19, Europe became the world's biggest electric vehicle (EV) market, overtaking China. Government subsidies and dozens of new cars and hybrids have helped spur consumer demand.

To thrive in this rapidly changing market, NTT DATA has created an all-in-one concept for e-mobility solutions capable of adapting to evolving customer needs and future regulatory requirements.

137%

Europe superseded China as the global driver of electric car sales in 2020 for the first time in five years, as European EV sales jump 137% despite the COVID-19 crisis hitting overall car sales (Source: EV-volumes.com)

What is NXT Mobility Charge?

New technologies are reshuffling the cards in the e-mobility market and open new avenues for businesses to create value. The key players in the EV market are not yet known, nor which business models will be successful. With NXT Mobility Charge, NTT DATA enables you to generate new business in the fast-changing world of future mobility. NXT Mobility Charge is the pioneering technology and transaction platform for charging point management that enables companies across a wide range of industries to develop new services and business models around electric cars. Modularity, integrability and independence from complex protocols make for an outstanding end customer experience.

Key benefits

- Multi-tenant capability for multiple charge point operators (CPOs) and e-mobility providers (EMPs), thus enabling rapid adaptation to different business models and to a diverse customer base
- Kernel-based architecture including an authorisation and permission concept for both CPOs and end customers
- Individual extensions makes it possible to add customer-specific functions and to react quickly and flexibly to structural or regulatory local market changes
- Cloud-native application based on highly available and scalable technologies
- Open API guarantees easy integration into existing products and services

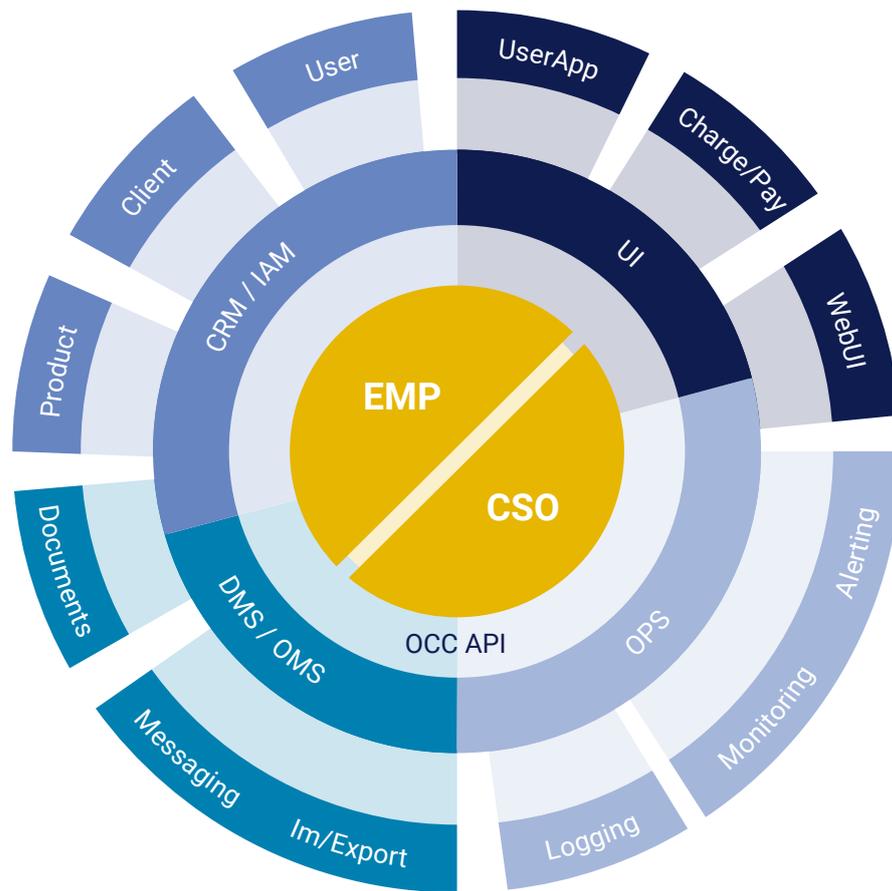


Figure 1: NXT Mobility Charge: a kernel extension module that enables the integration of custom functions and makes it easy to respond to changes in the EV market

» With NXT Mobility Charge, software features can be flexibly adapted or added. Offerings and services are thereby tailored for the end customer's evolving needs and requirements «



Oliver Köth, CTO, NTT DATA DACH



Delivered Value

NXT-Mobility is a newly developed platform based on a modular and scalable microservice architecture. With this state-of-the-art technology, features can be flexibly added or adapted and offerings can thereby be individually efficiently expanded to meet the end customers' current and upcoming needs. Thanks to the platform's modular system, individual services can be individually deployed and they can be individually scaled, as well.

The multi-cloud powered NXT Mobility platform significantly reduces operational overhead through proven AWS or Azure services, giving the teams more time to focus on the functional development of the applications. At the same time, VPN technology enables the seamless and secure connection of the central platform to the decentralised networks of the charging infrastructure. The division of the backend solution into an EMP/CPO core application with basic functions and a number of functional modules allows operators to customise their needs themselves or through a very attractive collaboration model with NTT DATA.



Become a successful provider in the e-mobility ecosystem together with NTT DATA!

About NTT DATA

NTT DATA – a part of NTT Group – is a trusted global innovator of IT and business services headquartered in Tokyo. We help clients transform through consulting, industry solutions, business process services, IT modernization and managed services. NTT DATA enables clients, as well as society, to move confidently into the digital future. We are committed to our clients' long-term success and combine global reach with local client attention to serve them in over 50 countries.

Visit us at [nttdata.com](https://www.nttdata.com).

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