How does an FV charging management software work?



The e-mobility revolution is coming fast, and all eyes are turning to EV charging infrastructure, the crucial part of e-mobility adoption success.

THE RISE OF E-MOBILITY

Building a charging network is



the e-Mobility Service Providers (eMSP) and Charge Point Operators (CPOs). Not to mention the frustration for the users.

reliability and excellent maintenance of charging networks is challenging.

relatively easy, but getting the



vehicle adaptation and a challenge where a suitable EV charging management software will be crucial.

The monitoring function is the core of EV charging management! It monitors single charging stations and the whole EV charging network as a group.

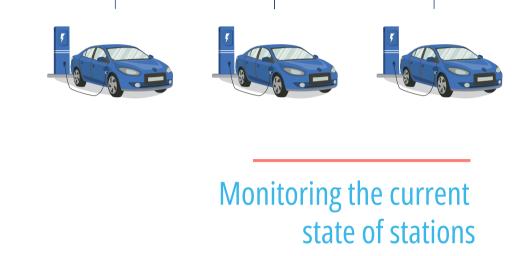
MONITORING

To enable 24/7 monitoring, Tridens EV Charge uses the Open Charge

the most common version used, but the upgrade to the latest version, OCPP 2.0.1, is happening.

ONLINE

Point Protocol (OCPP). OCPP 1.6 is



OFFLINE

Most important data: - the total number of connected charging stations

charging network.

Charge point operators (CPOs)

need real-time insight into the EV

- current status in the system - online, offline, or without communication

EV charging management software monitors: - the charging process of all the vehicles in the system

Monitoring of sessions (past and open)

- if charging restrictions are needed during peak times

- when users prefer to charge

- how fast they want to charge

117mi 42%

Smart charging

£4.98

Switch to our EV tariff Can you charge your

car between 2am and

A CPO can monitor past and open sessions to predict user behavior and

- other local energy consumption

- real-time energy production

- load balancing

Monitoring consumption at stations

- electrical infrastructure capabilities.

- For advanced load balancing functions, third-party products can be seamlessly integrated with REST APIs.
 - infrastructure performance. Daily or on-demand charging reports offer insight into:



A Smart EV charging management software enables Supplier-managed

charging (SMC), where charging providers can adjust the charging

parameters according to different pricing plans or situations.

- adjust or limit charging power for an

- distribute available charging power between

The charge point operator can change any parameter on the

charging station or update a charger's firmware. This can be

done to a single station or a group of stations as a stack update.

The central system can send load profiles or charging commands to the charging stations.



to prioritize a specific client

If a new device is OCPP compliant, it can be

simply added to the EV charging network!

Changing parameters and updating

CPOs can:

vehicles depending on their selected pricing plan or departure time.

Creating Smart Charging Profiles Smart charging profiles help the electrical infrastructure "flatten the curve" of energy demand.

- load balancing

- peak reductions

Adding stations

- cost-based optimizations - other measurements to avoid gaps in charge plans and actual EV power consumption

TROUBLESHOOTING

Smart Charging profiles are used for:

customer satisfaction! Smart EV charging management software processes large amounts of real-time data coming from the EV charging network and quickly recognizes any chargers' issues.

STEP 2

The system will



non-responsive units in real-time and alert the CPO. operational.

STEP 1

Smart EV charging

management immediately start software will quickly the automated identify troubleshooting non-operational or processes and try to make the charging station

STEP 3

If the automated

troubleshooting process fails, the CPO will check the logs in the control panel and start manual remote troubleshooting.

STEP 4

If remote

troubleshooting is

not successful, the

CPO will dispatch a

crew for on-site

maintenance and

provide all the data

about the problem.

WANT TO KNOW MORE?

extensive pricing options.



Providers (EMP). The software uses the OCPP protocol so that any OCPP station can connect to the system regardless of manufacturer or model. Tridens EV charge can monitor, manage, troubleshoot, and configure any attributes on the station, which can be used for maintenance and analyzing customer behavior to introduce

Tridens EV Charge is an all-in-one EV charging software solution

for Charge Point Operators (CPO) and e-Mobility Service

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