

# Electric Vehicle Charging Infrastructure

## OCPP Authorization and Transaction Support API

The OCPP Authorization and Transaction Support API is an ABB application interface to help charging infrastructure operators get the most out of their network-enabled EV charging solutions. This interface supports all communication messages necessary to authorize users while providing EV charge session transactional information to a back-office system.



ABB's Authorization and Transaction Support gives charging infrastructure operators the ability to efficiently manage access to their web-connected Terra charging equipment. Additionally, EV charge session transactional details are transmitted thus providing necessary user level information essential for operations. As with all components in the Houston suite of APIs, this support interface provides an opportunity to seamlessly integrate charging operations into an existing back office, thereby boosting efficiency and flexibility.

### Main features

- User ID white list management
- Remote authorization
- Remote start & stop of session
- Session statistics (kWh, time, ID)
- Based on OCPP standard

### Applications

- EV infrastructure operators
- Fleet operators

### Key features

- Connects your EV chargers to the subscriber management, authorization method, or payment system of your preference
- Enables subscriber management via RFID smartcards
- Enables other remote authorization methods (sms/text, smart-phone apps, online payment)
- Acquire charge session details (time, kWh, ID)
- Open standard protocol support (OCPP)
- Discuss with ABB technical experts how to create the best possible integration with your IT system via this OCPP interface

## What is OCPP?

The Open Charge Point Protocol (OCPP) is a SOAP-based protocol for communication between an EV charger and a central back office system. OCPP is an international open standard which is available for free, no license fees are required. Developed in 2009 for the EV infrastructure market, today it is supported by many large players in the EV industry such as utilities, charger manufacturers, and back-office software suppliers. As such, OCPP is designed to be vendor independent, thereby creating the freedom for infrastructure operators in choosing EV chargers and for vendors to supply EV chargers to any infrastructure operator.

## Technical specifications

### Features

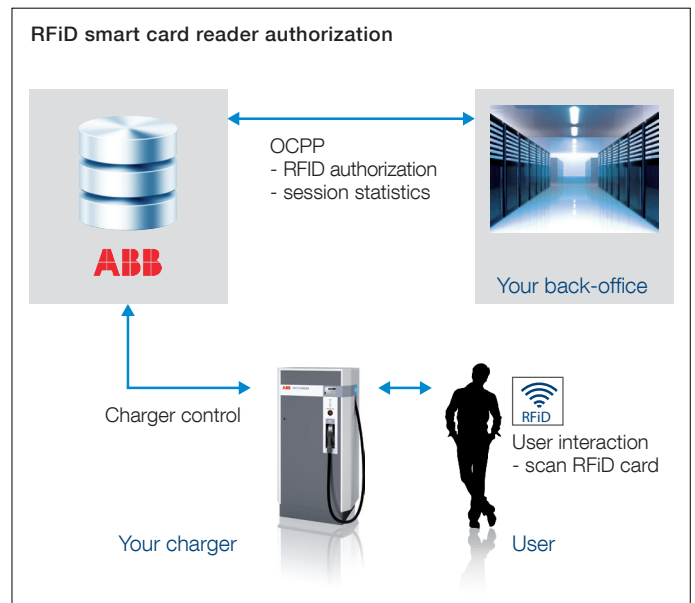
Based on OCPP (Open Charge Point Protocol)

Remote start & stop of session

User ID white list support

Session statistics:

- Charger ID
- Start session time
- Stop session time
- kWh at start of session
- kWh at stop of session
- Smartcard ID (in case RFID is used)



For more information please contact:

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