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Charging Today

CEC - ISO 15118 Charger Communications and Interoperability Workshop

Cliff Fietzek

11/10/2021

Why is ISO 15118-2 essential to accelerate EV adoption?

- Plug and Charge
 - Seamless charging experience the driver does not have to do anything beyond connecting the vehicle to the infrastructure.
 - Authentication identifying and authorizing the vehicle to be charged without any action on the part of the driver.
- Open access to EV charging (roaming)
 - giving freedom to EV drivers from closed member networks, multiple RFID cards, app sign ups
- Cyber Security
 - providing a mechanism by which messages between the vehicle and the charging infrastructure can be encrypted and decrypted.
- Vehicle-to-grid charging (V2X)
 - ISO-15118-20 will be the communication protocol for two-way energy transfer between the vehicles and a load (building, battery or the power grid).



Plug and Charge – a technology break through

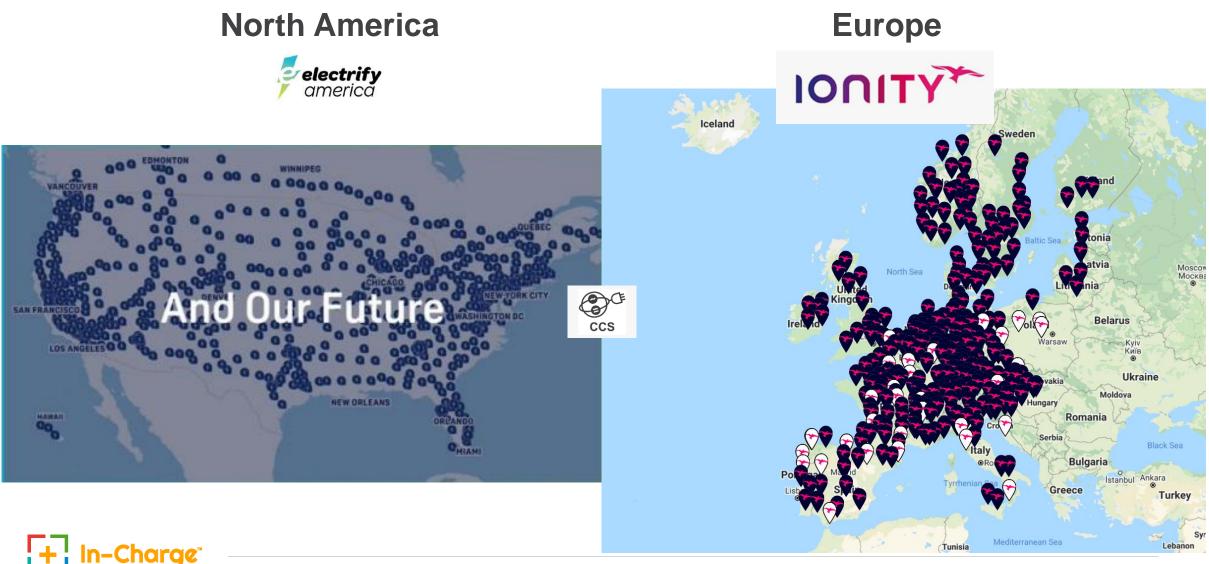
Plug and charge rolled out across North America and Europe based on ISO15118-2.

Vehicles supporting PnC: Ford, Mercedes, Porsche, Lucid, etc.





Charging infrastructure supporting Plug'N'Charge with ISO15118-2



Plug'N'Charge with ISO15118-2 is already supporting multiple PKI's





THANK YOU!