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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

North America

Europe

And Our Future
Plug’N’Charge with ISO15118-2 is already supporting multiple PKI’s

CPO is creating the contract certificate for the OEM

V2G Root

CPO

Contract Cert

OEM is creating the contract certificate

V2G Root

CPO

Contract Cert

Contract Cert

OEM is creating the contract certificate from the V2G root

V2G Root

CPO

Contract Cert

Contract Cert
THANK YOU!