

# SEALSQ TRUST SOLUTIONS FOR SECURE EV CHARGING INFRASTRUCTURE

ISO15118, OCPP and NACS international standards outline secure and standardized communication protocols between Electric Vehicle and charging infrastructure:



**Encryption**



**Secure Authentication**



**OTA Update**



**Access Control**



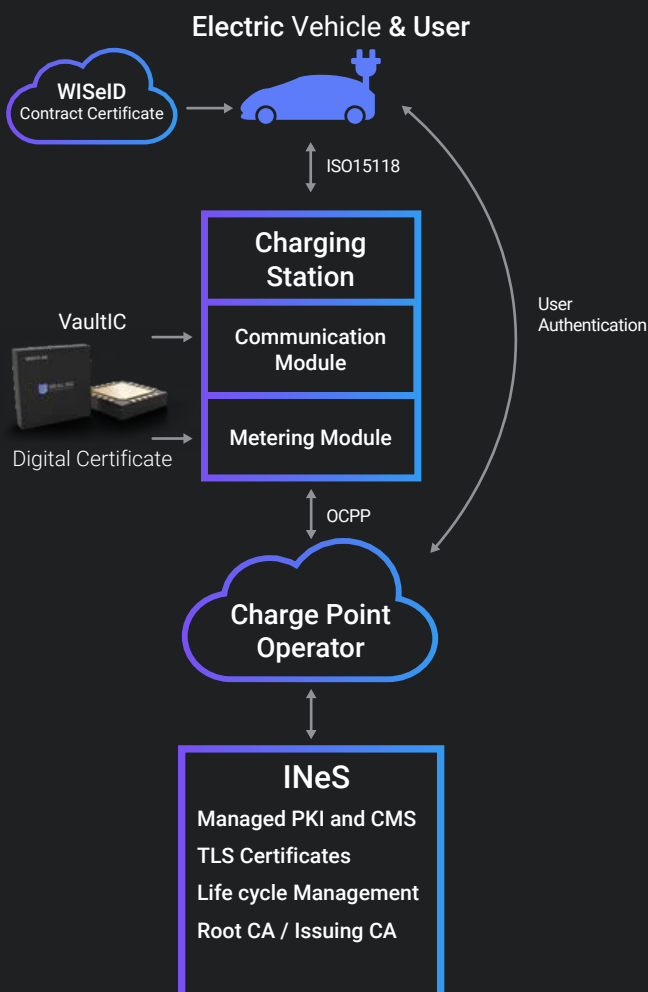
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# SEALSQ Solution :

- ◆ Ready-to-use Secure Element personalized with a unique and universally trusted Digital Identity (ISO15118 compliance).
- ◆ Public Key Infrastructure (PKI) for User and Device authentication, Data encryption and Data signature (Station-to-Vehicle / Service Provider / Station-to-Station)
- ◆ Certificate Authorities and Vehicle-to-Grid (V2G) Root CA, Aligned with Certificate Pools and Roaming Hubs Policies



- "Plug & Charge" Charger-Vehicle authentication
- Provide Secure Identity
- Support TLS Protocol
- Protect/Encrypt Data & Assets
- Provide True Random Number for cryptographic operations SP800-90B
- Provide a Secure Platform
  - Secure Boot
  - Secure Firmware Update