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ISO 15118

SemaConnect’s perspectives
Architecture

- **EV**: Electric Vehicle
- **CS**: Charging Station
- **RP**: Roaming Partner
- **eMSP**: eMobility Service Provider
- **OEM**: Original Equipment Manufacturer
- **OCPP**: Open Charge Point Protocol
- **OCPI**: Open Charge Point Interface
- **ISO 15118**: International Standard for Electric Vehicles
- **SemaConnect**: A leading provider of EV charging solutions
- **Open ADR**: Open Architecture for Demand Response
Certificate Authorities

- **CPO**
  - V2G Root CA
  - CPO Sub CA 1
  - Provisioning Sub CA 1
  - CPO Sub CA 2
  - Provisioning Sub CA 2
  - Charging Station Certificate
  - Charger
  - Leaf Provisioning Certificate
  - Provisioning Service

- **eMSP**
  - eMSP Root CA
  - eMSP Sub CA 1
  - eMSP Sub CA 2
  - Contract Certificate
  - Vehicle

- **OEM**
  - OEM Root CA
  - OEM Sub CA 1
  - OEM Sub CA 2
  - OEM EV Provisioning Certificate
  - Vehicle

**Root CA**
- **Sub CA 1**
- **Sub CA 2**
- **Leaf**
SemaConnect’s perspective on mass adoption of Plug & Charge

• ISO 15118 standard needs to support more than one contract certificate
• Charging network provider needs to support Plug and Charge in L2 charger in addition to DC charger
• Roaming standard needs to support plug and charge in roaming partner network
• Standardization required to support the process of exchanging ISO 15118 related certificates
• Requires more choices of 3rd party CAs for ISO 15118