OCPP document structure

compliance profiles

Public AC Charger	Residential AC Charger	DC Fast Charger	etc.

GENERIC — etc.

GENERIC	A. PROVISIONING	B. TRANSACTIONS	C. REMOTE COMMANDS	D. AUTHENTICATION	E. RESERVATION	F. SMART CHARGING	G. REMOTE TRIGGER
Introduction							
Terminology							
Abbreviations							
Context							
Actors							
Generic requirements							
Architecture							
Generic Data Types							
Security							
Error handling							

Use case (for each functional block A–G):

- ID
- Description
- Objective
- Actors
- Scenario
- Prerequisites
- Postconditions
- Sequence diagram
- Error Handling
- Requirements
  - Functional
  - Non functional
  - Constraint

functional blocks

Messages	Messages	Messages	Messages	Messages	Messages	Messages
Data Types	Data Types	Data Types	Data Types	Data Types	Data Types	Data Types
Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys

transport protocols

SOAP	JSON over web sockets	etc.

GENERIC

Meter values

Heartbeat

functional blocks

A. PROVISIONING	**B. TRANSACTIONS**	**C. REMOTE COMMANDS**	**D. AUTHENTICATION**	**E. RESERVATION**	**F. SMART CHARGING**	**G. REMOTE TRIGGER**

use cases

Cold Boot Charge Point	**Start/stop Transaction**	**Remote Commands**	**User Authentication**	**Reservation**	**Smart Charging**	**Trigger Message**

sub use cases

A. PROVISIONING

- *Cold Boot Charge Point - Pending*
- *Cold Boot Charge Point - Rejected*

Offline behavior
- *Idle Charge Point*

Configure Charge Point
- *Get configuration - All Available keys*
- *Get configuration - Specific keys*

Change Availability

B. TRANSACTIONS

- *Start Transaction - Cable Plugin First*
- *Start Transaction - Cached Id*
- *Start Transaction - Identification First*

Local start/stop Transaction
- *Start Transaction - Cable Plugin First*
- *Start Transaction - Cable Not Plugged In*
- *Start Transaction - Running Transaction*

Remote start/stop Transaction
- *Remote Transaction - Cable Plugin First*
- *Remote Transaction - Remote Start First*

Offline behavior
- *Offline start transaction*
- *Offline stop transaction*

Status Notification

C. REMOTE COMMANDS

Download Firmware

Get Diagnostics

Data Transer

Resetting
- *Reset - With transaction*
- *Reset - Without Transaction*

Unlock Connector
- *Unlock Connector - With Transaction*
- *Unlock Connector - Without Transaction*

D. AUTHENTICATION

Send Local Authorization List

Offline behavior
- *Offline authorization through Authorization Cache entries*
- *Offline authorization through the Local Authorization List.*
- *Unknown Offline Authorization*

E. RESERVATION

- *Cancel reservation*

F. SMART CHARGING

- *Central Smart Charging*
- *Load balancing*
- *Local Smart Charging*
- *Remote Start Transaction with Charging Profile*

Set Charging Profile
- *Clear Charging Profile*
- *Clear Cache*
- *Get Composite Schedule*

RFC

Device Model light

Ereta

15118 ammendements

IEC 61850-90-8

Credit card payments

Security

JSON Proxy

Minors

Vehicle to Grid

Tariffing & Pricing