Overview OCPP use cases

compliance profiles	Public AC Charger		Residential AC Charger		DC Fast Charger		etc.

	GENERIC	**A. PROVISIONING**	**B. TRANSACTIONS**	**C. REMOTE COMMANDS**	**D. AUTHENTICATION**	**E. RESERVATION**	**F. SMART CHARGING**	**G. REMOTE TRIGGER**	etc.
	Introduction	Use case	Use case	Use case	Use case	Use case	Use case	Use case	
functional blocks	Architecture	Messages	Messages	Messages	Messages	Messages	Messages	Messages	
	Context	Data Types	Data Types	Data Types	Data Types	Data Types	Data Types	Data Types	
	Terminology	Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys	Configuration Keys	
	Abbreviations								
transport protocols	Generic requirements	SOAP				JSON over web sockets			etc.
	Security								
	Error handling								
	Generic Data Types								

Overview OCPP use cases

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
  - *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/stop Transaction
  - *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

- 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

- User 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

- Reservation
  - *Cancel reservation*

F. SMART CHARGING

- 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*

G. REMOTE TRIGGER

- Trigger Message