

## Host Utilities



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# India SMART UTILITY Week 2025

## ORGANIZER



## Supporting Ministries



**Session 1: Emerging Smart Energy Technologies and Standardization Landscape on the topic -  
Emerging Smart Energy Technologies and Standardization Landscape – Global Perspectives.**

## UPDATE ON OCPP

*Presented By*

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@ISUW\_India



@India Smart Utility Week (ISUW)



@India Smart Utility Week (ISUW)



@indiasmartgridforum

# The Open Charge Alliance (OCA) is the industry alliance governing OCPP

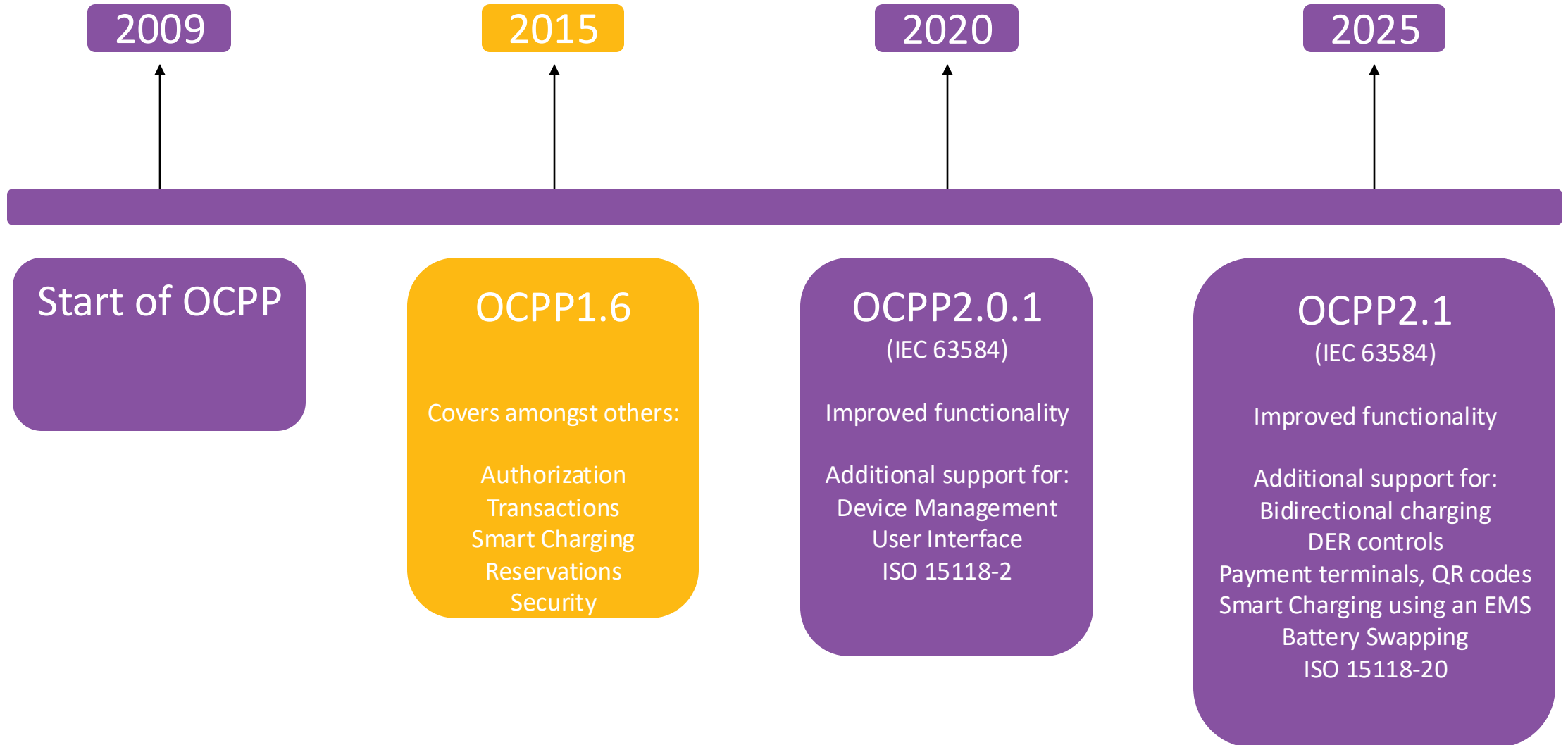


- OCA's goal is to help the EV charging industry accelerate
- A nonprofit foundation, founded in 2014 under Dutch law
- OCA develops OCPP, promotes OCPP and develops compliance testing and certification



- OCPP is freely available, open, patent and royalty free with no cost or licensing barriers
- OCPP is a trademark and is protected by copyright license

# OCPP is developed following the need of the growing industry and incorporating field experience

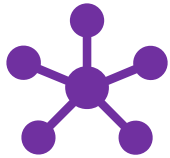


# OCPP continues to develop in 2025 according to the industry's needs



## OCPP Lite Task Group

Special focus on OCPP for resource constrained devices



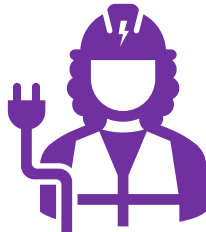
## Networking / Local Controller Task Group

Define clear requirements for a Local Controller



## Security Task Group

Revise and perhaps update the security specifications of OCPP



## Commissioning Task Group

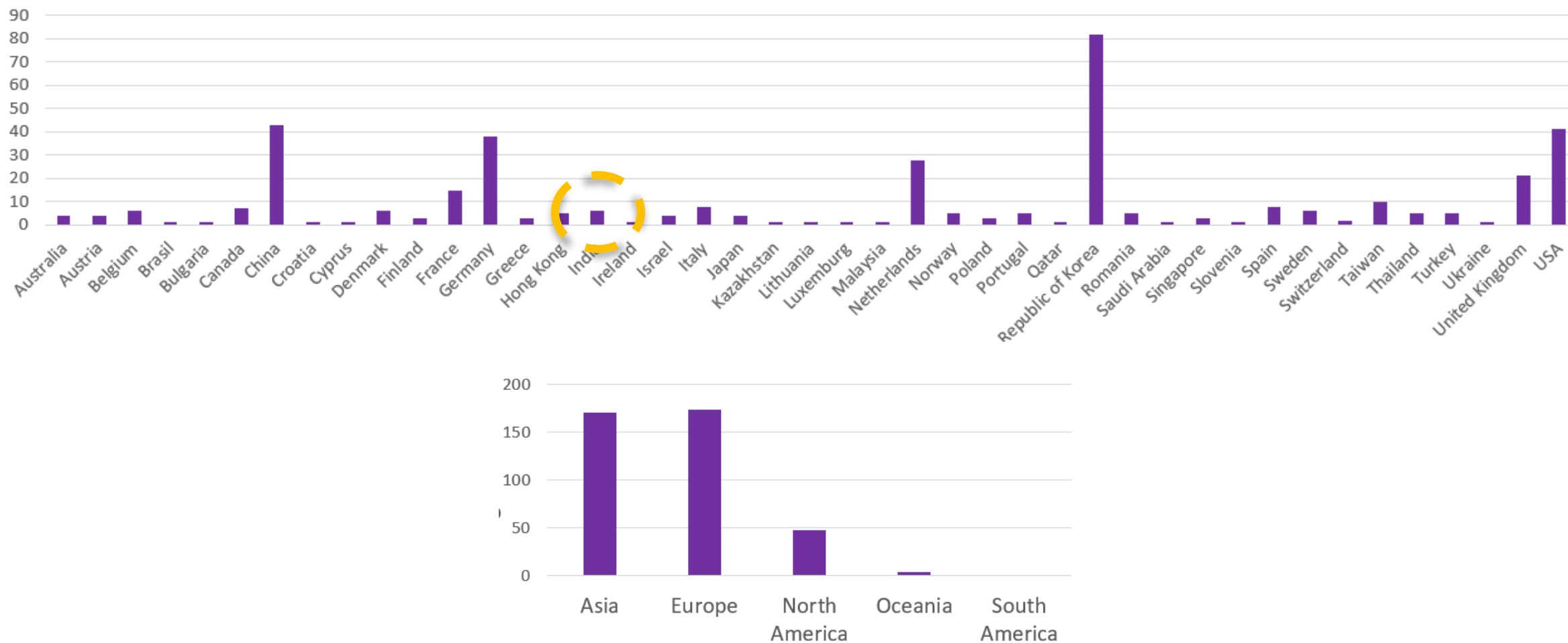
Explore if we can define a standard, easy, secure specification for the commissioning of charging stations

# IEC 63584 = OCPP2.0.1ed3

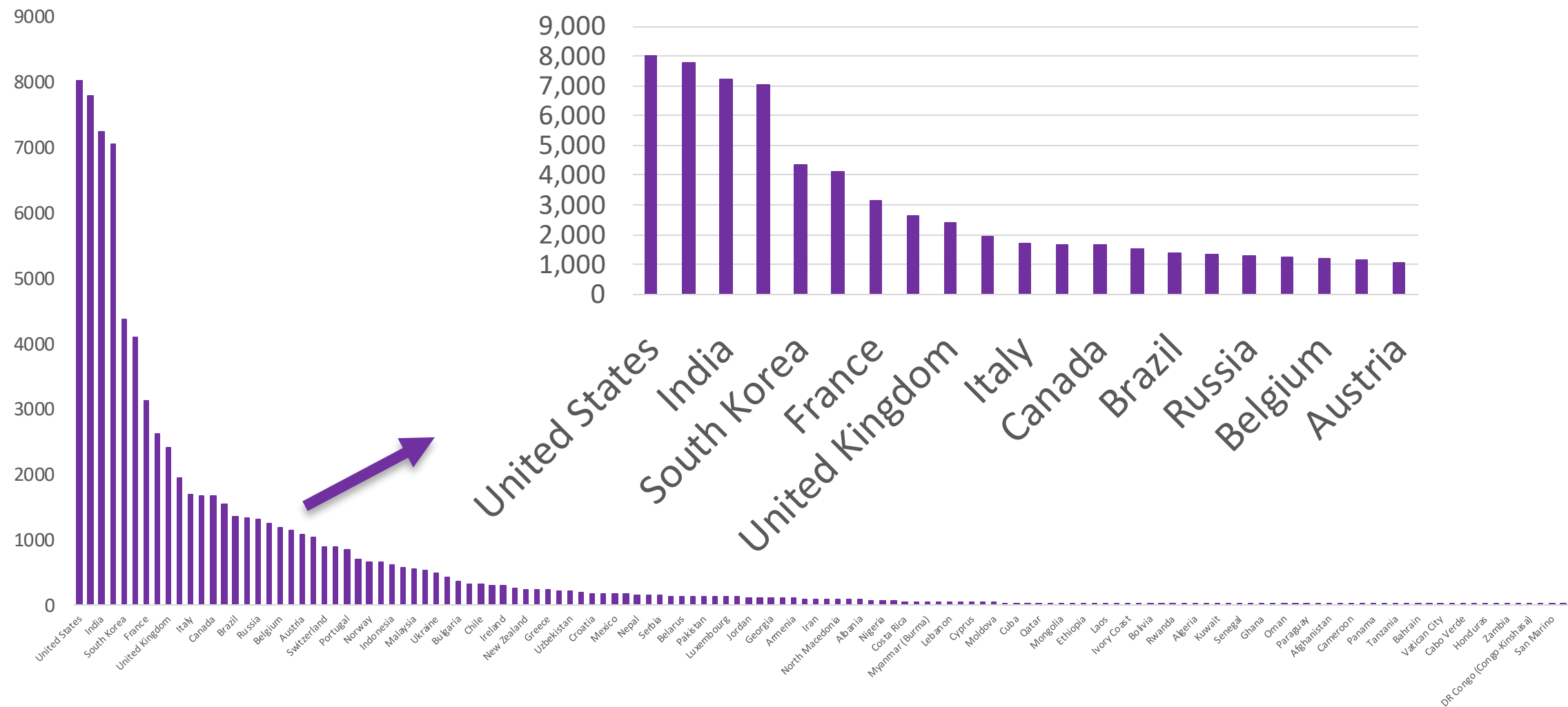


- OCPP2.0.1 ed3 (2024) is published by IEC as IEC 63584:2024
- All future versions of OCPP will be offered to IEC for publication
  - IEC 63584-21 (OCPP2.1)
- OCA will continue to develop OCPP within its working groups, together with IEC Liaison experts
- Draft documentation will be shared with IEC Technical Committees for information and feedback

# OCA currently has 408 participants, 6 from India



# OCPD downloads in India



# OCPP is fit for all Indian Use Cases

## OCPP covers many use cases



For DC Fast Charging, bi-directional charging, public charging and home charging

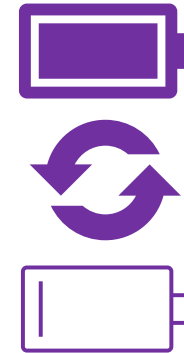
## OCPP 2.Lite

Special focus on OCPP for resource constrained devices



OCPP2.Lite - a lightweight implementation requires <200kB

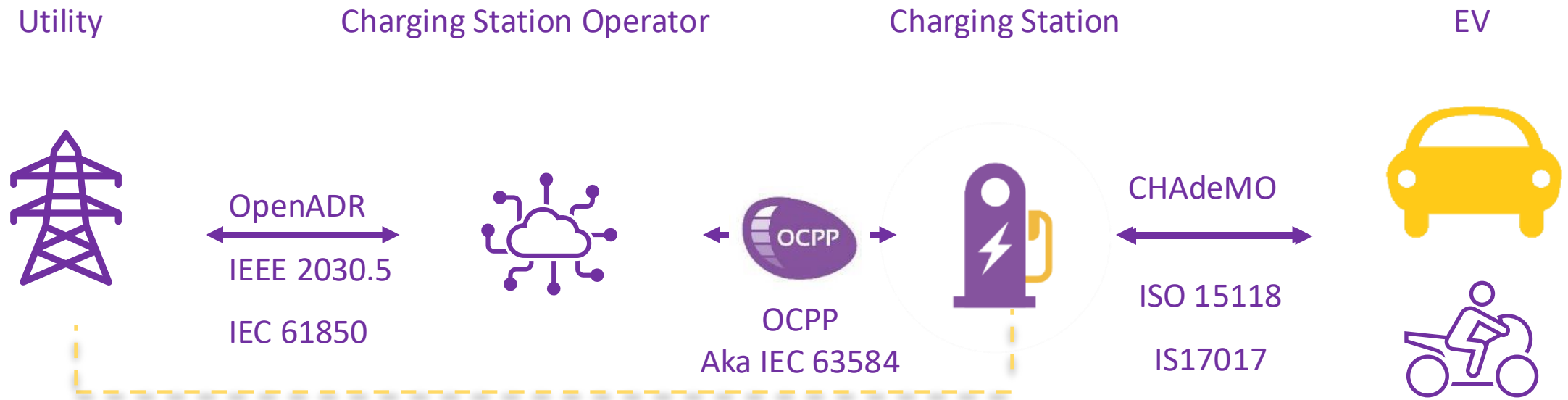
## Battery Swapping in OCPP2.1



New messages and use cases added for Battery swapping



# Harmonization of OCPP with IEC and IEEE standards



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# THANK YOU

For discussions/suggestions/queries email: [isuw@isuw.in](mailto:isuw@isuw.in)

[www.isuw.in](http://www.isuw.in)

Links/References (If any)