Certification Program Update

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www.OpenChargeAlliance.org

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Why OCPP Certification ?

- To validate that a system has implemented OCPP correctly
  - For Buyers to check before they purchase a system
  - For Vendors to promote their systems to Buyers
  - To make integrating systems between Vendors faster and more efficient

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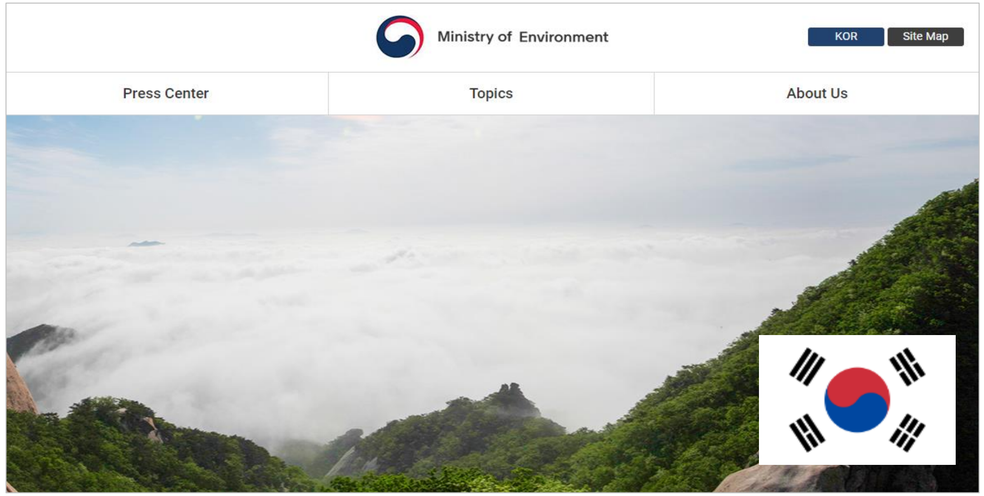
Why OCPP Certification ?



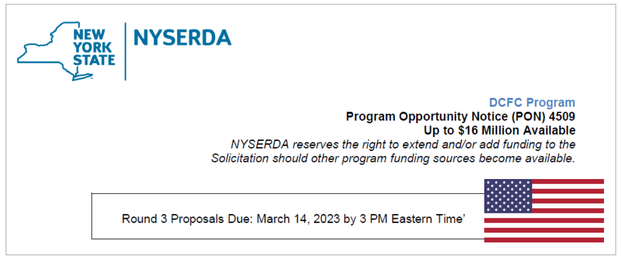
Biden-Harris Administration Announces Latest Steps to Deliver a National Network of Convenient, Reliable, Made-in-America Electric Vehicle Chargers

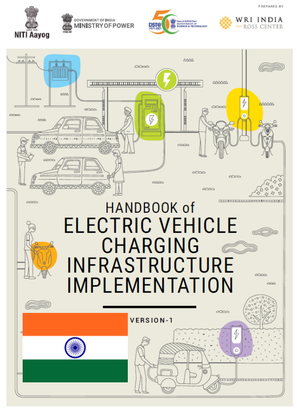
Wednesday, February 15, 2023

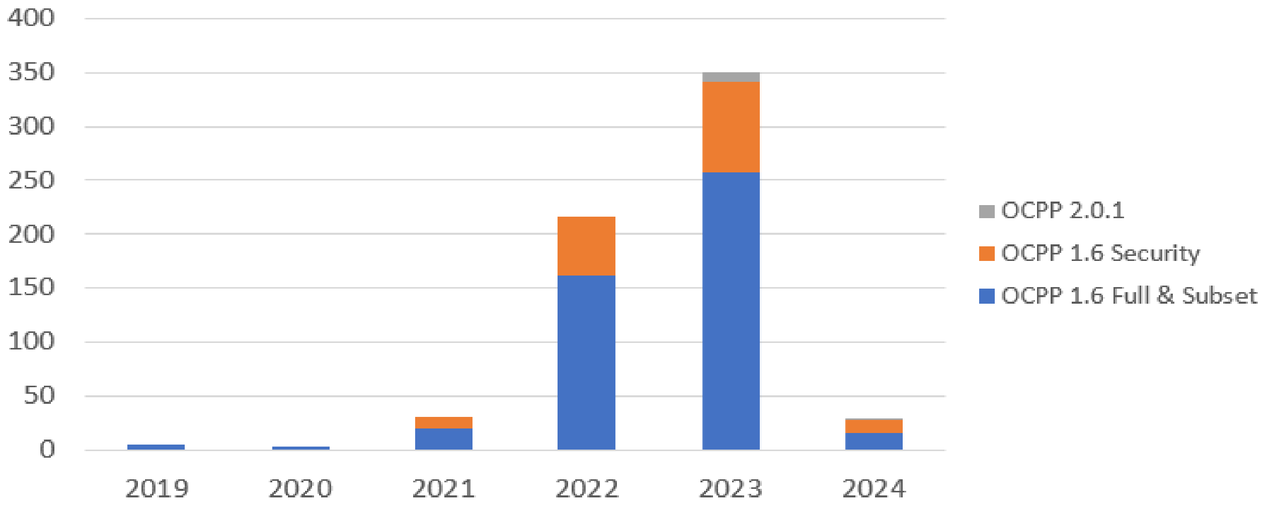
EV Charging Standards and Build America, Buy America Implementation Plan Positions States to Deploy First $1.5 billion in EV charging formula funding

EV Charging Competitive Grant Program for Communities Coming Soon

FHWA 06-23
Contact: FHWA.PressOffice@dot.gov
Tel: (202) 366-0660







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OCPP 2.0.1 Certification is available!

OCPP 1.6 Certification
opened in November 2019

For Charging Stations and CSMSs

OCPP 2.0.1 Certification is open as of June ‘23 for ‘Core’ and ‘Advanced Security’ profiles

For Charging Stations, CSMSs and Software Stacks

Certification for the additional profiles is expected to open in April 2024

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Our OCPP 2.0.1 front runners

driivz

iocharger

ITE
INSTITUTO TECNOLÓGICO DE LA ENERGÍA

Korea Electrotechnology Research Institute
KERI
1976
한국전기연구원

KEVIT
EV Solution

KOSTAL

PUMPKIN

Switch

TARDIS
TECHNOLOGY

Trialog

VATTENFALL

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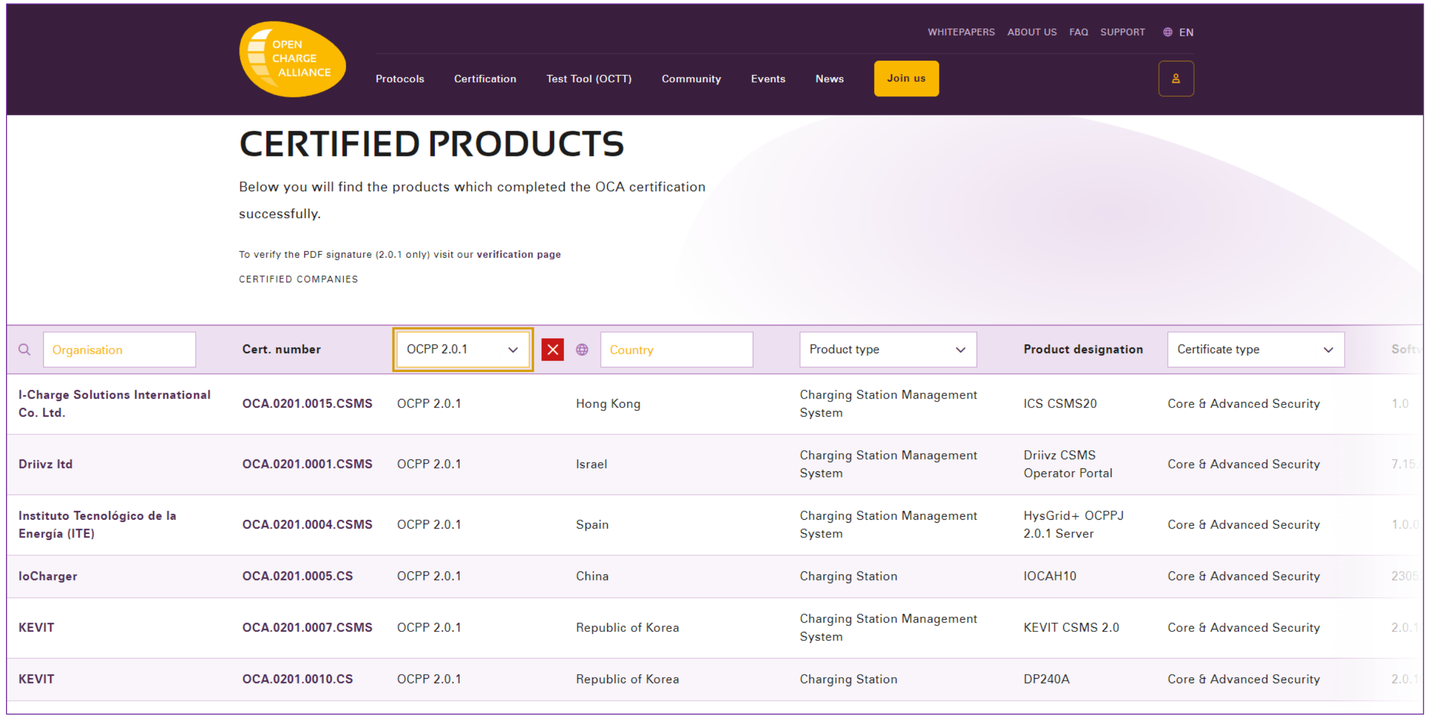
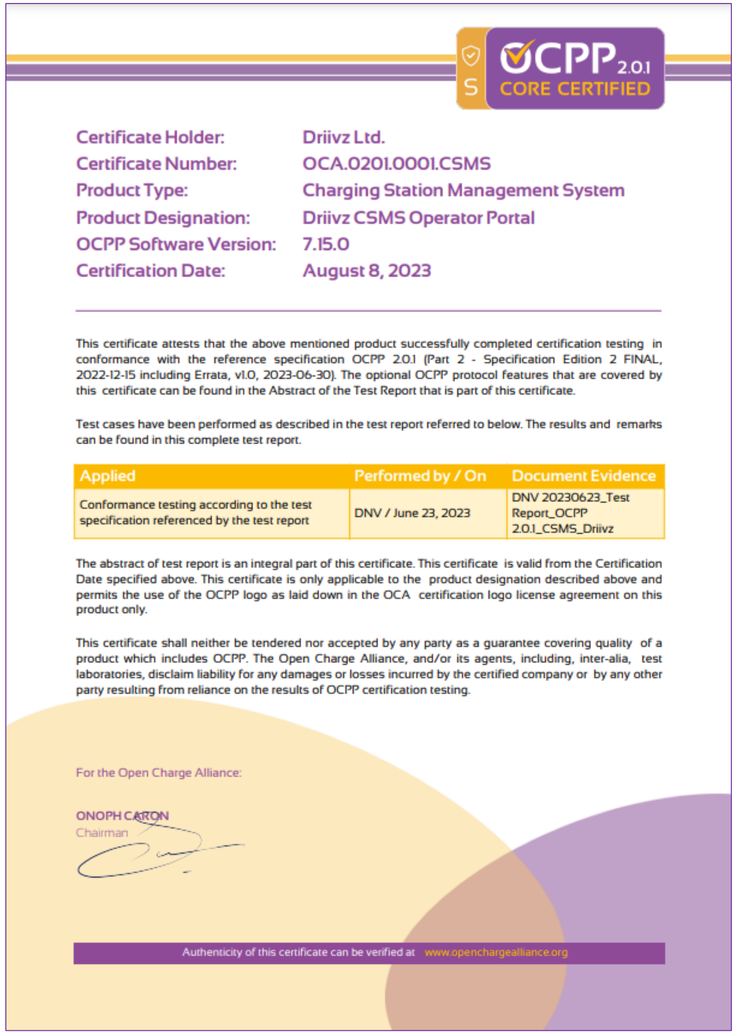
Certificates on the website





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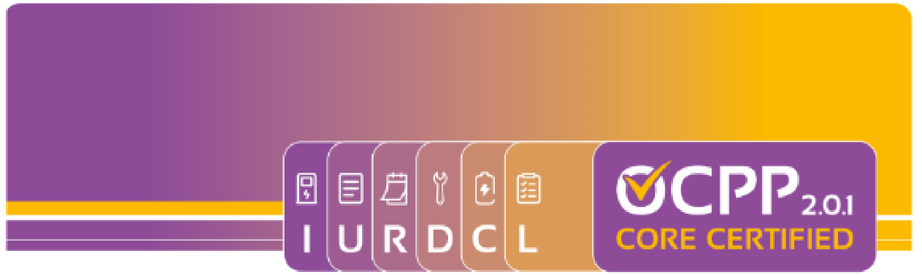
Types of OCPP Certificates – OCPP 2.0.1

For a Charging Station Management System, Charging Station and Charging Station Software Stack

Functionality	
Core	Mandatory
Advanced Security	Optional
Local Authorization List Management	Optional
Smart Charging	Optional
Advanced Device Management	Optional
Reservation	Optional
Advanced User Interface	Optional
ISO 15118 support	Optional



Functionality	
Core	Mandatory
Advanced Security	Optional
Local Authorization List Management	Optional
Smart Charging	Optional
Advanced Device Management	Optional
Reservation	Optional
Advanced User Interface	Optional
ISO 15118 support	Optional

See: OCPP Certification Procedure

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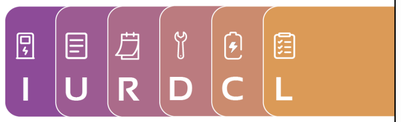
OCPP 2.0.1 Certification fees (maximum)

		OCA participant		Non participant	
		Charging Station	Charging Station Management system	Charging Station	Charging Station Management system
OCPP1.6		7.000 €	4.800 €	10.500 €	8.300 €
OCPP2.0.1		7.500 €	4.800 €	11.000 €	8.300 €
		tbd	tbd	tbd	tbd

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DNV USA
Rochester, NY
DEKRA USA
Concord, CA
DEKRA
USA
Reston, VA
DNV NL,
Arnhem
DEKRA NL,
Arnhem
KSGA Korea ,
Seoul
KTC,
Gunpo, Gyeonggi-do
DNV SP,
Singapore

Information on is the OCA website

- Certification Procedure Document → *Describes the Certification Procedure (1 document for 1.6 and 2.0.1)*
- Test Procedure & Test Plans → *Describes the Test Procedure (version specific)*
- PICS (Protocol Implementation Conformance Statement) → *Describes what vendor wants to certify (version specific)*
- List of Labs & Contact Details → *The same labs for both versions*

Managed by the Compliance Working Group

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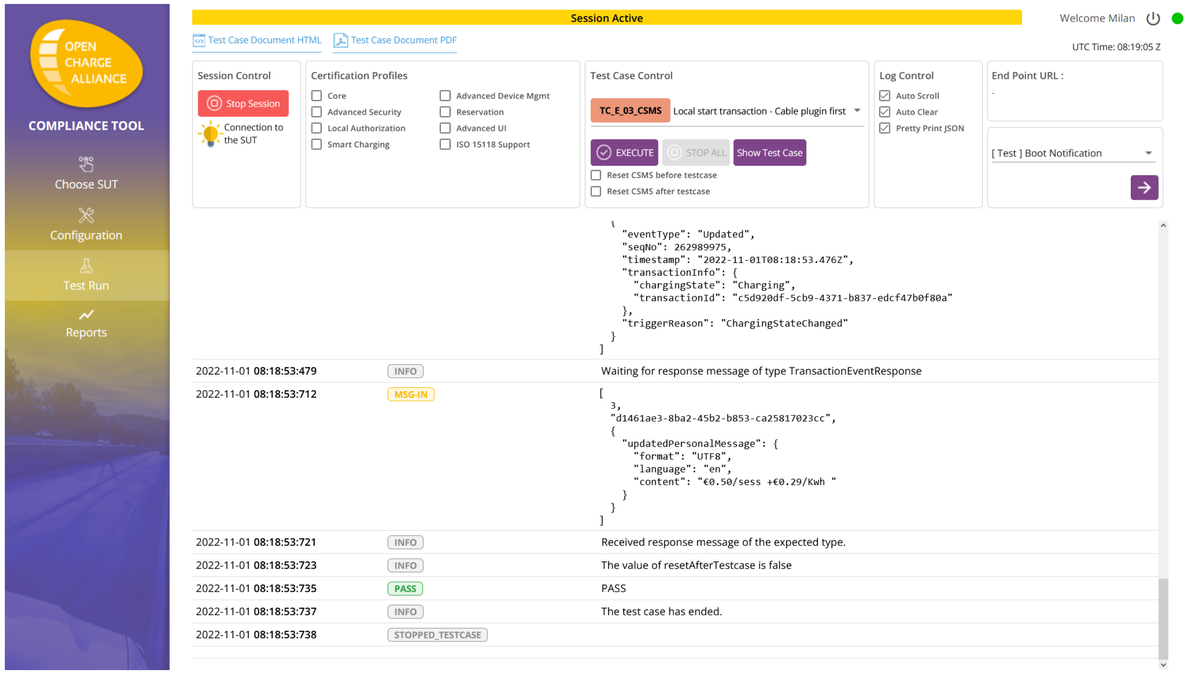
PICS for OCPP 2.0.1

	CORE	
Id	Feature	Supported / present
C-11	Unlocking connector for Charging Station with detachable cable (UnlockConnector).	Yes
C-13	Reset per EVSE	No

A	B	C	D	E	F	G	H
Testcase	Certification Profile	Name	CSMS Status	Feature	Feature Name	Status	Perform test for certification (based on PICS)
TC_A_01_CSMS	Core	Basic Authentication - Valid username/password combination	Mandatory test for a mandatory feature				TRUE
TC_A_02_CSMS	Core	Basic Authentication - Username does not equal ChargingStationId	Mandatory test for a mandatory feature				TRUE
TC_A_03_CSMS	Core	Basic Authentication - Invalid password	Mandatory test for a mandatory feature				TRUE
TC_A_09_CSMS	Core	Update Charging Station Password for HTTP Basic Authentication - Accepted	Mandatory test for a mandatory feature				TRUE
TC_A_10_CSMS	Core	Update Charging Station Password for HTTP Basic Authentication - Rejected	Mandatory test for a mandatory feature				TRUE
TC_A_04_CSMS	Core	TLS - server-side certificate - Valid certificate	Mandatory test for a mandatory feature				TRUE
TC_A_06_CSMS	Core	TLS - server-side certificate - TLS version too low	Mandatory test for a mandatory feature				TRUE
TC_A_19_CSMS	Core	Upgrade Charging Station Security Profile - Accepted	Mandatory test for a mandatory feature				TRUE
TC_B_01_CSMS	Core	Cold Boot Charge Point - Accepted	Mandatory test for a mandatory feature				TRUE
TC_B_02_CSMS	Core	Cold Boot Charge Point - Pending	Mandatory for optional feature	C-44	BootNotification Pending		FALSE
TC_B_30_CSMS	Core	Cold Boot Charge Point - Pending/Rejected - SecurityError	Possibly mandatory, depending on your system				TRUE
TC_B_31_CSMS	Core	Cold Boot Charge Point - Pending/Rejected - TriggerMessage	Possibly mandatory, depending on your system				TRUE
TC_B_06_CSMS	Core	Get variables - Single value	Mandatory test for a mandatory feature				TRUE
TC_B_07_CSMS	Core	Get variables - Multiple	Mandatory for optional feature	C-45	Multiple elements GetVariablesRequest		TRUE
TC_B_09_CSMS	Core	Set variables - Single value	Mandatory test for a mandatory feature				TRUE
TC_B_10_CSMS	Core	Set variables - Multiple	Mandatory for optional feature	C-46	Multiple elements SetVariablesRequest		TRUE
TC_B_12_CSMS	Core	Get Base Report - Success - ConfigurationInventory	Mandatory for optional feature	C-17	ConfigurationInventory		TRUE
TC_B_13_CSMS	Core	Get Base Report - Success - FullInventory	Possibly mandatory, depending on your system				TRUE
TC_B_20_CSMS	Core	Reset - Charging Station - Without ongoing transaction	Mandatory test for a mandatory feature				TRUE
TC_B_21_CSMS	Core	Reset - Charging Station - With ongoing transaction - OnIdle	Mandatory test for a mandatory feature				TRUE
TC_B_22_CSMS	Core	Reset - Charging Station - With ongoing transaction - Immediate	Mandatory test for a mandatory feature				TRUE
TC_B_25_CSMS	Core	Reset - EVSE - Without ongoing transaction	Mandatory for optional feature	C-13	Reset per EVSE		FALSE
TC_B_26_CSMS	Core	Reset - EVSE - With ongoing transaction - OnIdle	Mandatory for optional feature	C-13	Reset per EVSE		FALSE
TC_B_27_CSMS	Core	Reset - EVSE - With ongoing transaction - Immediate	Mandatory for optional feature	C-13	Reset per EVSE		FALSE
TC_B_42_CSMS	Core	Set new NetworkConnectionProfile - Accepted	Mandatory test for a mandatory feature				TRUE

The Certification Labs use the OCPP Toolkit for OCPP 1.6 and OCTT for OCPP 2.0.1



The OCTTs are available for members and non-members

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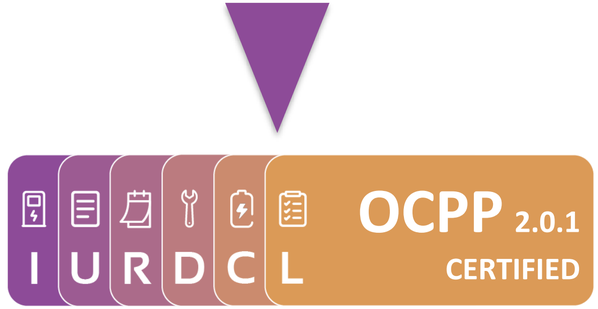
OCPP 2.0.1 certification roadmap

OCPP 2.0.1 certification opened in **June ’23** for ‘Core’ & ’Advanced Security’

OCPP 2.0.1 certification is expected to in **April ’24** for the 6 additional profiles



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Currently Sprinting…

- We are again “sprinting” towards opening for the remaining OCPP 2.0.1 Certification Profiles
- Validation of OCTT with real implementations & prepare the implementations for a real certification run
- Open OCPP 2.0.1 Certification Program for remaining Certification Profiles in April 2024

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If you are ready for certification, contact these labs!

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Certified
Certified
Certified
I U R D C L S
OCPP 2.0.1
CORE CERTIFIED
We are looking forward to seeing you at the
OCPP Certification Program!!