# OCPP 1.6 Full Certificate



UNIVERSITY-INDUSTRY COOPERATION GROUP OF

Certificate holder: KYUNG HFF

Certificate number: OCA.0016.0180.CSMS

Product type: Charging Station Management System

Product designation: KHU CSMS V2

OCPP Software version: 2.0

Certification date: August 19, 2022

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 – Edition 2 with OCPP 1.6 Errata sheet (v4.0 Release, 2019-10-23). The optional features of the protocol are also covered by this certification.

Test cases have been performed as described in the test report referred to below. The results and remarks can be found in the complete test report.

Applied tests	Performed by / on	Document evidence
Conformance testing according to the test specification referenced by the test report	Korea Smart Grid Association, August 19, 2022	KSGA_20220819_Test Report_UICGKH

The abstract of test report in the Annex is an integral part of this certificate. This certificate is valid from the Certification Date specified above. This certificate is only applicable to the product designation described above and permits the use of the OCPP logo as laid down in the OCA certification logo license agreement on this product only.

This certificate shall neither be tendered nor accepted by any party as a guarantee covering quality of a product which includes OCPP. The Open Charge Alliance, and/or its agents, including, inter-alia, test laboratories, disclaim liability for any damages or losses incurred by the certified company or by any other party resulting from reliance on the results of OCPP certification testing.

For the Open Charge Alliance:



# **Abstract of test report**

Test Result Summary

Test Report	OCPP 1.6	Certification	
Test laboratory:	Korea Smart	Grid Association	
Location:	Seoul / Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-100-2022		
	LINIVERSITY.	INDUSTRY COOPERATION GROUP OF	
Vendor name:	KYUNG HEE UNIVERSITY		
Device Under Test:	CSMS		
Communication:	JSON		
OCPP Software version:	2,0		
Test Result Summary	for the ce	rtified functionalities	
Functionalities	OCPP 1.6	Description	
	Certification		
	Test Results		
Core	Pass	Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.	
Optional features			
Firmware Management	Pass	Support for (remote) firmware update management and diagnostic log file download.	
Smart Charging	Pass	Support for Smart Charging (all profile types, including stacking), to control charging.	
Reservation	Pass	Support for reservation of a connector of a Charging Station.	
Local Authorization List Managemen	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.	
Remote Trigger	Pass	Support for remotely triggering messages that originate from a Charging Station. This can be used for resending messages or for getting the latest information from the Charging Station.	

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### Performance Measurement Results

Performance Measurement Results				
Name PICS value Measured value Description				
OCPP response timeout:	4.1s	00:00:04	The response time for when waiting for an OCPP response message.	
Response time Authorize:	2.1s	00:00:02	The response time for the Authorize message.	

### Test Configuration

# **Test Configuration**

Vendor	UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY		
DUT / SUT	CSMS		
Communication	JSON		
OCPP Software version 2,0			
OCTT version OCTT 1.6 v1.4.3			
All relevant limits and non-OCPP settings that are relevant for the test laboratory and for the correct functioning of the CSMS:			

Limit / setting Value

Device supports sending milliseconds in timestamps:

Yes



### Statement of Approval

Vendor		<b>Date</b> : 2022.08.19
Name	Choong Seon Hong	Signature
	UNIVERSITY-INDUSTRY COOPERATION	
Company	GROUP OF	
	KYUNG HEE UNIVERSITY	
Damanton	Department of	
Department	Computer Science and Engineering	The second
Position	Professor	11.82
Location	Yongin, Korea	

Test laboratory		<b>Date</b> : 2022.08.19
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	6
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	/