# OCPP 1.6 Full Certificate



Certificate holder: HANMAUM

Certificate number: OCA.0016.0608.CSMS

Product type: Charging Station Management System

Product designation: CSMS

OCPP Software version: 1.6

Certification date: January 18, 2024

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, January 18, 2024	(KSGA)Hanmaum_Test Report_CSMS_v1.04

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:

ONOPH CARON Chairman



## **Abstract of test report**

#### Test Result Summary

Test laboratory:	Korea Smart Grid Association		
Location:	Seoul, Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-233-2023		
Vendor name:	Hanmaum		
Device Under Test:	CSMS		
Communication:	JSON		
OCPP Software version:	1.6		
Test Result Summary	for the ce	rtified functionalities	
Functionalities	OCPP 1.6	Description	
	Certification		
	<b>Test Results</b>		
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 Manageme	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.	

**Test Report OCPP 1.6 Certification** 

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#### Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP response timeout:	300s	00:00:01	The response time for when waiting for an OCPP response message.
Response time Authorize:	300s	00:00:00	The response time for the Authorize message.

#### **Test Configuration**

Vendor	Hanmaum	
DUT / SUT	CSMS	
Communication	JSON	
OCPP Software version	1.6	
OCTT version	OCTT 1.6 v1.4.3	
All relevant limits and non-OCPP settings that are relevant for the test laboratory		

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	Yes	
timestamps:	res	



### Statement of Approval

Vendor		<b>Date</b> : 2024.01.18
Name	Dongjin Park	Signature
Company	HANMAUM	111
Department	Electric Vehicle Charger Division	11157
Position Chief Executive		760
Location	Chungcheongnam-do, korea	, ,

Test laboratory			<b>Date</b> : 2024.01.18
Name	Philip YANG		Signature
Company	Korea Smart Grid Association		4
Department	Quality Certification Center		
Position	Chief Researcher		A.
Location	Seoul, Korea		/