OCPP 1.6 Full Certificate



Certificate holder: Hanwha Solutions Corporation

Certificate number: OCA.0016.0095.CSMS

Product type: Charging Station Management System

Product designation: HanwhaMotiev CSMS 1.0

OCPP Software version: 1.0.0

Certification date: April 13, 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, April 13, 2022	KSGA_20220413_Test Report_Hanwha Solutions Corporation

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:

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Abstract of test report

Test Result Summary

_	Test Devices CCDD 4.0.0 cestification
	Test Report OCPP 1.6 Certification
Test laboratory:	Korea Smart Grid Association
Location:	Seoul / Korea
Test Report Reference:	KSGA-OCPP1.6TEST-043-2022
Vendor name:	Hanwha Solutions Corporation
Device Under Test:	CSMS
Communication:	JSON
OCPP Software version:	1.0.0

Test Result Summary for the certified 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. **Firmware Management Pass** Support for (remote) firmware update management and diagnostic log file download. **Smart Charging** Support for Smart Charging (all profile **Pass** types, including stacking), to control charging. Reservation Pass Support for reservation of a connector of a Charging Station. **Local Authorization List Management 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.



Performance Measurement Results

Performance Measurement Results			
Name	PICS value	Measured value	Description
OCPP response timeout:	30s	00:00:01	The response time for when waiting for an OCPP response message.
Response time Authorize:	30s	00:00:00	The response time for the Authorize message.

Test Configuration

Test Configuration

Vendor	Hanwha Solutions Corporation	
DUT / SUT	CSMS	
Communication	JSON	
OCPP Software version	1.0.0	
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:

Value
Yes



Statement of Approval

Vendor		Date: 2022.04.13
Name	Byung Guk Hwang	Signature
Company	Hanwha Solutions Corporation	
Department	QCELLS Next Stream	11124
Position	Team Leader	of our an
Location	Seoul, Korea	

Test laboratory		Date : 2022.04.13
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	ام
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	