OCPP 1.6 Full Certificate



Certificate holder: Namboo Solution

Certificate number: OCA.0016.0090.CSMS

Product type: Charging Station Management System

Product designation: Namboo EV Charging Management System

OCPP Software version: NB Ocpp CSMS v1.0

Certification date: April 8, 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 8, 2022	KSGA_20220408 _TestReport_NB Solution

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 Report OCPP 1.6 Certification		
Test laboratory:	Korea Smart Grid Association		
Location:	Seoul / Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-040-2022		
Vendor name:	NB Solution		
Device Under Test:	CSMS		
Communication:	JSON		
OCPP Software version:	NB_Ocpp_CSMS v1.0		

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** Pass Support for Smart Charging (all profile types, including stacking), to control 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 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:	5s	00:00:03	The response time for when waiting for an OCPP response message.	
Response time Authorize:	5s	00:00:00	The response time for the Authorize message.	

Test Configuration

Test Configuration			
Vendor	NB solution		
DUT / SUT	CSMS		
Communication	JSON		
OCPP Software version	NB_Ocpp_CSMS v1.0		
OCTT version	OCTT 1.6 v1.4.3		
All relevant limits and non-OCPP setting	ngs 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		Date: 2022.04.08
Name	HoCheol Choo	Signature
Company	NB Solution	2-21
Department		Topic .
Position	CEO	/ 192/
Location	Naju-si, Jeollanam-do, Korea	

Test laboratory		Date: 2022.04.08
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	ام
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	