

# OCPP 1.6 Security Certificate



**Certificate holder:** PMGROW

**Certificate number:** OCA.0016.0086.CSMS

**Product type:** Charging Station Management System

**Product designation:** ChargeMon  
OCPP Software version: V1.0

**Certification date:** March 15, 2022

This certificate attests that the above mentioned product successfully completed security certification testing in conformance with the reference specification Security Whitepaper – Edition 3 (Improved security for OCPP 1.6-J v1.3, 2022-02-17). The security profiles of the protocol covered by this certificate can be found in the abstract of this certificate.

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
<i>Conformance testing according to the test specification referenced by the test report</i>	<i>Korea Smart Grid Association, March 15, 2022</i>	<i>KSGA_20220315_Test Report_PMGROW</i>

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


A blue ink signature of Onoph Caron, Chairman of the Open Charge Alliance.


## Abstract of test report

### Test Result Summary

Test Report OCPP 1.6 Certification		
<b>Test laboratory:</b>	Korea Smart Grid Association	
<b>Location:</b>	Seoul / Korea	
<b>Test Report Reference:</b>	KSGA-OCPP1.6TEST-027-2022	
<b>Vendor name:</b>	PMGROW	
<b>Device Under Test:</b>	CSMS	
<b>Communication:</b>	JSON	
<b>OCPP Software version:</b>	v1.0	
Test Result Summary for the certified security functionalities		
Functionalities	OCPP 1.6 Security Certification Test Results	Description
Security Profile 1	Pass	Unsecured Transport with Basic Authentication Profile 1 is optional.
Security Profile 2	Pass	TLS (1.2 or higher) with Basic Authentication Security profile 2 or security profile 3 or both must be implemented.
Security Profile 3	N/A	TLS (1.2 or higher) with Client Side Certificates Security profile 2 or security profile 3 or both must be implemented.

Statement of Approval

Vendor		Date: 2022.03.15
Name	Junwoo Kim	Signature 
Company	PMGROW	
Department	BaaS Lab.	
Position	Director	
Location	Seoul, Korea	

Test laboratory		Date: 2022.03.15
Name	Philip YANG	Signature 
Company	Korea Smart Grid Association	
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	