# OCPP 1.6 Full Certificate



Certificate holder: ELVO TECHNOLOGY SRL

Certificate number: OCA.0016.0336.CSMS

Product type: Charging Station Management System

Product designation: ELVO

OCPP Software version: 1.5

Certification date: April 17, 2023

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	DNV Netherlands B.V.,	DNV_20230417_Test Report_Elvo
specification referenced by the test report	April 17, 2023	Technology_V104

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:	DNV		
Location:	Arnhem, The Netherlands		
Test Report Reference:	DNV_20230417_Test Report_Elvo Technology_V104		
Vendor name:	ELVO TECHNOLOGY		
Device Under Test:	CSMS		
Communication:	JSON		
OCPP Software version:	1.5		

#### Test Result Summary for the certified functionalities **Functionalities** OCPP 1.6 Description Certification **Test Results** Pass Basic Charging Station functionality for Core booting, authorization (incl. cache if available), configuration, transactions, remote control. Support for (remote) firmware update Pass Firmware Management management and diagnostic log file download. Support for Smart Charging (all profile **Smart Charging** Pass types, including stacking), to control charging. Support for reservation of a connector Reservation Pass of a Charging Station. Features to manage a local list in the **Local Authorization List Management** Pass charging station containing authorization data for whitelisting users. Support for remotely triggering Remote Trigger Pass 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

Name	PICS value	Measured value	Description		
OCPP response timeout:	60 Sec	3 Sec	The response time for when waiting for an OCPP response message.		
Response time Authorize:	60 Sec	0 Sec	The response time for the Authorize message.		

## **Test Configuration**

Vendor	ELVO TECHNOLOGY
DUT / SUT	CSMS
Communication	JSON
OCPP Software version	1.5
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:	No



# Statement of Approval

Vendor		Date: 17-Apr-2023	
Name	Florin Dumitrescu	Signature	
Company	Elvo Technology		
Department	IT	Florin Dumitrescu	
Position	Architect/Technical Lead	, was transcent	
Location	Bucharest		

Test laboratory			Date: 17-Apr-2023
Name Casper van der Sluis			Signature
Company	DNV		2
Department	Digital System Operations		100.
Position	Consultant Digital System Operations	( Vd Stee	
Location	Arnhem		