



Certificate Holder: Fuuse Ltd
Certificate Number: OCA.0016.0993.CSMS
Product Type: Charging Station Management System
Product Designation: Fuuse
OCPP Software Version: c1.6
Certification Date: February 6, 2025

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata v4.0 Release, 2019-10-23). The optional OCPP protocol features that are covered by this certificate can be found in the Abstract of the Test Report that is part 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 this complete test report.

Applied	Performed by / On	Document Evidence
Conformance testing according to the test specification referenced by the test report	DNV January 29, 2025	DNV 20250129_OCPP-1.6-PICS -CSMS-v1.0.1-Fuuse

The abstract of test report 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 the Test Report

Test Report OCPP 1.6 Certification

Test laboratory:	DNV
Location:	Arnhem, The Netherlands
Test Report Reference:	DNV 20250129_OCPP-2.0.1-PICS-CSMS-v1.3.3-Fuuse
Product Designation:	Fuuse
Vendor name:	Fuuse Ltd
Device Under Test:	Charging Station Management System
OCPP Software Version	cl.6

Test Result Summary for the Certified Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station functionality for booting, authorization, configuration, transactions, remote control, including basic security.
Firmware Management	Pass	Support for firmware update management and diagnostic log file download.
Local Authorization List Management	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Smart Charging	Pass	Support for Smart Charging, to control charging.
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.
Reservation	Pass	Support for reservation of a connector of a Charging Station.

Additional Questions

ID	Additional Questions for Lab Testing:	Supported / Present
AQ-1	Can your CSMS be configured to first respond to a BootNotificationRequest with status Pending or Rejected?	Yes

Vendor Specific Settings

Configuration Setting	Configured Value	Description
Central Token	OCA_TOKEN_1	Central
ISO14443 Token	123456789	ISO14443
KEY_CODE Token	KEY_CODE_TOKEN	KeyCode
ISO15693 Token	987654321	ISO15693
Blocked Token	BLOCKED	Central
Expired Token	EXPIRED	Central
ChargingStationId	SerialNumber	Charging station with profile 3
ChargingStationId	SerialNumbeBasic	Charging station with profile 1
Blocked ISO14443 Token	222222222	ISO14443
Blocked ISO15693 Token	111111111	ISO15693
Blocked KeyCode Token	BLOCKED_KEY_CODE_TOKEN	KeyCode
Expired ISO14443 Token	333333333	ISO14443
Expired ISO15693 Token	444444444	ISO15693
Expired KeyCode Token	EXPIRED_KEY_CODE_TOKEN	KeyCode
Websocket URL	ws://dev-ocpp-backend-ws-basic.fuuse.io	Profile 1
API URL	https://dev-ocpp-backend-basic.fuuse.io/api/v1	Profile 1
Websocket URL	wss://dev-mtls-ocpp-backend-ws.fuuse.io	Profile 3
API URL	https://dev-ocpp-backend.fuuse.io/api/v1	Profile 3

Performance Measurement Result

Name	Max Value	Unit	Description
OCPP response time	30	seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
Response time Authorize	30	seconds	The response time for the Authorize message.

Name	Min Value	Max Value	Average Value	Unit
OCPP response time	0.02	0.21	0.10	seconds
Response time Authorize	0.07	0.21	0.12	seconds

Communication technology used during performance measurement:	Ethernet
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Statement of Approval

Vendor		
Name	Chris Townsend	Date: 2025-01-20
Company	Fuuse	Signature:
Department	Technology	
Position	Technology Director	
Location	Lancaster UK	

Test Laboratory		
Name	Casper van der Sluis	Date: 2025-02-06
Company	DNV	Signature:
Department	Digital System Operations	
Position	Consultant Digital System Operations	
Location	Arnhem, The Netherlands	