Certificate Holder: Vattenfall Incharge

Certificate Number: OCA.0201.0037.CSMS

Product Type: Charging Station Management System

Product Designation: Incharge portal

OCPP Software Version: 20241002-2

Certification Date: April 8, 2025

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 2.0.1 (Edition 3 FINAL, 2024-05-06 including Errata 2024-11). 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 Singapore Ptd. Ltd. October 28, 2024	OCPP 2.0.1 PICS CSMS - 2.0.1 - Vattenfall

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 2.0.1 Certification

Test laboratory:	DNV Singapore Ptd. Ltd.
Location:	Singapore
Test Report Reference:	OCPP 2.0.1 PICS CSMS-Vattenfall

Product Designation:	Incharge portal
Vendor name:	Vattenfall Incharge
Device Under Test:	Charging Station Management System
OCPP Software Version:	20241002-2
Config ID:	90E2F4AB

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.
Advanced Security	Not Tested	Support for TLS with client authentication.
Local Authorization List Management	Not Tested	Support for local authorization list management and optionally of an authorization cache.
Smart Charging	Pass	Support for Smart Charging, to control charging.
Advanced Device Management	Pass	Support for the OCPP Device Model and advanced logging and monitoring.
Reservation	Not Tested	Support for reservation of a connector of a Charging Station.
Advanced User Interface	Not Tested	Support for tariff & cost and DisplayMessage functionality.
ISO 15118 Support	Pass	Support for ISO 15118 Smart Charging and Plug and Charge authorization.

Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not.Please refer to part 5 of the OCPP specification for the list of optional features and the reference to the relevant use cases in part 2 of the OCPP specification.

Core		
ID	**Core Features**	**Supported / Present**
C-11	Support for unlocking connector for charging station with detachable cable.	No
C-13	Support for Reset per EVSE	No
C-14	Support for retrieving / deleting CustomerInformation - CustomerIdentifier	No
C-15	Support for scheduled firmware updates	No
C-16	Support for checking the TransactionStatus	No
C-17	Support for retrieving the ConfigurationInventory	No
C-29	TriggerMessage	
C-29.1	Trigger message - MeterValues	No
C-29.2	Trigger message - TransactionEvent	No
C-29.3	Trigger message - LogStatusNotification	No
C-29.4	Trigger message - FirmwareStatusNotification	No
C-29.5	Trigger message - StatusNotification	No

ID	**Authorization Options for Local Start**	**Tested During Certification**
C-30	Authorization - using RFID ISO14443	Yes
C-31	Authorization - using RFID ISO15693	Yes
C-32	Authorization - using KeyCode	Yes
C-33	Authorization - using locally generated id	Yes
C-34	Authorization - MacAddress	Yes
C-35	Authorization - NoAuthorization	Yes

ID	Authorization Options for Remote Start	Tested During Certification
C-36	Authorization - using RFID ISO14443	Yes
C-37	Authorization - using RFID ISO15693	Yes
C-38	Authorization - using centrally, in the CSMS generated id	Yes
C-39	Authorization - NoAuthorization	Yes

ID	Core Features	Supported / Present
C-44	Support for sending a BootNotification Pending before Accepting	No
C-45	Support for Multiple elements GetVariablesRequest	No
C-46	Support for Multiple elements SetVariablesRequest	No
C-50	GetBaseReport - FullInventory	
C-50.1	GetBaseReport - FullInventory - During onboarding	Yes
C-50.2	GetBaseReport - FullInventory - Manual trigger	No

Smart Charging		

ID	Certification Profile: Smart Charging	Supported / Present
SC-4	Support for TxDefaultProfile on EVSEID #0	No

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
AQ-12	Is a FullInventory requested during onboarding / booting test cases?	No
AQ-13	Does your CSMS support Absolute values for the following Charging Profiles:	
AQ-13.1	TxDefaultProfile	Yes
AQ-13.2	ChargingStationMaxProfile	Yes

ID	Additional Questions for Lab Testing	Answer
AQ-14	Does your CSMS support Recurring values for the following Charging Profiles:	
AQ-14.1	TxDefaultProfile	Yes
AQ-14.2	ChargingStationMaxProfile	Yes
AQ-16	Does the CSMS reject unknown Charging Stations during websocket connection setup?	Yes
AQ-17	Can your CSMS be configured to first respond to a BootNotificationRequest with status Pending or Rejected?	No

Performance Measurement Result

The tables below shows the list of key performance indicators that are measured during the conformance test. The first table indicates the values that the vendor indicates that are valid maximum values for this product. The second table lists the actual performance measurements during the tests performed in a controlled environment.

Name	Max Value	Unit	Description
OCPP response time	5	seconds	The response time for when waiting for an OCPP response message after sending an OCPP request message. This entails all OCPP messages, excluding Authorize. Messages to the DUT can be handled within this timeout.
Response time Authorize	1	seconds	The response time for the Authorize message.

Name	Min Value	Max Value	Average Value	Unit
OCPP response time	0.02	4.03	0.05	seconds
Response time Authorize	0.03	0.26	0.05	seconds

Communication technology used during performance measurement	Ethernet/Cloud

Statement of Approval

Vendor

Name	Ronald van der Scheun	Date: 2025-03-10
Company	Vattenfall Incharge	Signature:
Department	Hardware and Asset Management	
Position	Product Owner	
Location	Amsterdam	

Test Laboratory

Name	Sukoco	Date: 2025-03-10
Company	DNV Singapore Ptd. Ltd.	Signature:
Department	Energy Systems	
Position	Senior Consultant	
Location	Singapore	

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