

OCPP 1.6 Subset Certificate



Certificate holder: ELECTROMAGNETICA SA
Certificate number: OCA.0016.0448.CS
Product type: Charging Station
Product designation: RS82075 - BCBADB
OCPP Software version: 2.58
Hardware feature set as stated below
Certification date: July 28, 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 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>DNV Netherlands B.V., July 28, 2023</i>	<i>DNV_20230728_Test Report_Electromagnetica_V105</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

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Abstract of test report

Test Result Summary

Test Report OCPP 1.6 Certification		
Test laboratory:	DNV	
Location:	Arnhem, The Netherlands	
Test Report Reference:	DNV_20230728_Test Report_Electromagnetica_V105	
Vendor name:	ELECTROMAGNETICA SA	
Device Under Test:	Charging Station	
Communication:	JSON	
OCPP Software version:	2.58	
Test Result Summary for the certified functionalities		
Functionalities	OCPP 1.6 Certification Test Results	Description
Core	Pass	Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.
Optional features		
Firmware Management	N/A	Support for (remote) firmware update management and diagnostic log file download.
Smart Charging	N/A	Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation	N/A	Support for reservation of a connector of a Charging Station.
Local Authorization List Management	N/A	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Remote Trigger	N/A	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

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60 Sec	6 Sec	The response time for when waiting for an OCPP function with its corresponding request message. (Firmware update, Diagnostics and Reboot are excluded from this measurement.)
OCPP response timeout:	120 Sec	1 Sec	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	0,2 Sec	0 Sec	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Electromagnetica SA
DUT / SUT	Charge Point
Communication	JSON
Type	RS82075 - BCBADB
OCPP Software version	2.58
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set

Feature	Configuration
Socket(s) / connector(s)	multiple
Fixed cable	Yes
Communication technology	ethernet
RFID readers	one per EVSE

Non-OCPP Charge Point Configuration


Configuration key	Value
<>	<>


All other 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.	Yes

OCPP Charging Station Configuration	
Configuration key	Value
AllowOfflineTxForUnknownId	< optional >
AuthorizationCacheEnabled	< optional >
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	< optional >
ClockAlignedDataInterval	0
ConnectionTimeout	30
ConnectorPhaseRotation	0.NotApplicable,1.NotApplicable,2.RST
ConnectorPhaseRotationMaxLength	< optional >
GetConfigurationMaxKeys	30
HeartbeatInterval	60
LightIntensity	< optional >
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	< optional >
MessageTimeout	< optional >
MeterValuesAlignedData	Energy.Active.Import.Register,Voltage,Current.Import,Power.Active.Import,SoC
MeterValuesAlignedDataMaxLength	< optional >
MeterValuesSampledData	Energy.Active.Import.Register,Voltage,Current.Import,Power.Active.Import,SoC
MeterValuesSampledDataMaxLength	< optional >
MeterValueSampleInterval	60
MinimumStatusDuration	< optional >
NumberOfConnectors	3
ResetRetries	0
StopTransactionMaxMeterValues	< optional >
StopTransactionOnEVSideDisconnect	< optional >
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Energy.Active.Import.Register,S
StopTxnAlignedDataMaxLength	< optional >
StopTxnSampledData	Energy.Active.Import.Register,S
StopTxnSampledDataMaxLength	< optional >
SupportedFeatureProfiles	Core,FirmwareManagement,LocalAuthListManagement,Reservation,RemoteTrigger
SupportedFeatureProfilesMaxLength	< optional >
TransactionMessageAttempts	3
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	TRUE
WebSocketPingInterval	< optional >
LocalAuthListEnabled	
LocalAuthListMaxLength	
SendLocalListMaxLength	
ReserveConnectorZeroSupported	< optional >
ChargeProfileMaxStackLevel	
ChargingScheduleAllowedChargingRateUnit	
ChargingScheduleMaxPeriods	
ConnectorSwitch3to1PhaseSupported	< optional >
MaxChargingProfilesInstalled	
SupportedFileTransferProtocols	< optional >

Statement of Approval

Vendor		Date: 2023-07-28
Name	Andrei Voineag	Signature 
Company	ELECTOMAGNETICA	
Department	D.P.E.E.C.	
Position	Test Engineer	
Location	Bucharest, Romania	

Test laboratory		Date: 2023-07-28
Name	Casper van der Sluis	Signature 
Company	DNV	
Department	Digital System Operations	
Position	Consultant Digital System Operations	
Location	Arnhem	