

OCPP 1.6 Full Certificate



Certificate holder:	EV-Box B.V.
Certificate number:	OCA.0016.0008.CS
Product type:	Charging Station
Product designation:	EVBox BusinessLine, OCPP Software version: G4P0422B0422v0
Certification date:	October 19, 2020

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
<i>Conformance testing according to the test specification referenced by the test report</i>	<i>DEKRA Certification Inc., October 19, 2020</i>	<i>Dekra_20201019_Test Report_EV-Box_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

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	
Test laboratory:	Dekra Certification Inc.
Location:	Arnhem, Netherlands
Test Report Reference:	DEKRA_20201019_Test Report_EV-Box_V105
Vendor name:	EV-Box B.V
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	G4P0422B0422v0

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	Pass	Support for (remote) firmware update management and diagnostic log file download.
Smart Charging	Pass	Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation	Pass	Support for reservation of a connector of a Charging Station.
Local Authorization List Management	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
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.

Performance Measurement Results

Performance Measurement Results			
Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60 sec.	43 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:	15 sec.	1 sec.	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 sec.	1 sec.	The response time for the RemoteStartTransaction message.

Test Configuration

Test Configuration	
Vendor	EV-Box B.V.
DUT / SUT	Charge Point
Communication	JSON
Type	EVBox BusinessLine
OCPP Software version	G4P0422B0422v0
OCTT version	OCTT 1.6 v1.4


Hardware feature set	
Feature	Configuration
Socket(s) / connector(s)	Single
Fixed cable	No
Communication technology	WiFi / mobile network
RFID readers	single


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.	No

OCPP Charging Station Configuration	
Configuration key	Value
AllowOfflineTxForUnknownId	true
AuthorizationCacheEnabled	false
AuthorizeRemoteTxRequests	true
BlinkRepeat	<optional>
ClockAlignedDataInterval	0
ConnectionTimeout	60
ConnectorPhaseRotation	0.Unknown / 1.RST
ConnectorPhaseRotationMaxLength	21
GetConfigurationMaxKeys	1
HeartbeatInterval	30
LightIntensity	50
LocalAuthorizeOffline	true
LocalPreAuthorize	false
MaxEnergyOnInvalidId	<optional>
MessageTimeout	60
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	11
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	11
MeterValueSampleInterval	false
MinimumStatusDuration	<optional>
NumberOfConnectors	1
ResetRetries	false
StopTransactionMaxMeterValues	true
StopTransactionOnEVSideDisconnect	false
StopTransactionOnInvalidId	true
StopTxnAlignedData	false
StopTxnAlignedDataMaxLength	<optional>
StopTxnSampledData	false
StopTxnSampledDataMaxLength	<optional>
SupportedFeatureProfiles	Core, FirmwareManagement, LocalAuthListManagement, SmartCharging, RemoteTrigger, Reservation
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	false
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	false
WebSocketPingInterval	60
LocalAuthListEnabled	true
LocalAuthListMaxLength	500
SendLocalListMaxLength	25
ReserveConnectorZeroSupported	true
ChargeProfileMaxStackLevel	6
ChargingScheduleAllowedChargingRateUnit	Current,Power
ChargingScheduleMaxPeriods	25
ConnectorSwitch3to1PhaseSupported	false
MaxChargingProfilesInstalled	66
SupportedFileTransferProtocols	FTP

Statement of Approval

Vendor		Date: 19-10-2020
Name	Vinoth Dayalan	Signature 
Company	EVBox B.V.	
Department	Hardware	
Position	Platform Integration Test Engineer	
Location	Amsterdam, The Netherlands	

Test laboratory		Date: 19-10-2020
Name	L.S.M. Mooi	Signature 
Company	DEKRA Certification B.V.	
Department	PEP	
Position	Test Engineer	
Location	Arnhem, The Netherlands	