

# OCPP 1.6 Full Certificate



**Certificate holder:** Alfen N.V.

**Certificate number:** OCA.0016.0003.CS

**Product type:** Charging Station

**Product designation:** Eve Double Pro-line,  
OCPP Software version: 4.7.1

**Certification date:** December 19, 2019

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 BV, December 19, 2019</i>	<i>DEKRA_20191219_Test Report_Alfen_V104</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, the Chairman of the Open Charge Alliance.

## Abstract of test report

### Test Result Summary

Test Report OCPP 1.6 Certification	
<b>Test laboratory:</b>	Dekra Certification BV
<b>Location:</b>	Arnhem, The Netherlands
<b>Test Report Reference:</b>	DEKRA_20191219_Test Report_Alfen_V104
<b>Vendor name:</b>	Alfen N.V.
<b>Device Under Test:</b>	Charging Station
<b>Communication:</b>	JSON
<b>OCPP Software version:</b>	4.7.1

Test Result Summary for the certified functionalities		
Functionalities	OCPP 1.6 Certification	Description
<b>Test Results</b>		
<b>Core</b>	<b>Pass</b>	Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.
<b>Optional functionalities</b>		
<b>Firmware Management</b>	<b>Pass</b>	Support for (remote) firmware update management and diagnostic log file download.
<b>Smart Charging</b>	<b>Pass</b>	Support for Smart Charging (all profile types, including stacking), to control charging.
<b>Reservation</b>	<b>Pass</b>	Support for reservation of a connector of a Charging Station.
<b>Local Authorization List Management</b>	<b>Pass</b>	Features to manage a local list in the charging station containing authorization data for whitelisting users.
<b>Remote Trigger</b>	<b>Pass</b>	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:	10 seconds	4 seconds	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:	10 seconds	4 seconds	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 seconds	4 seconds	The response time for the RemoteStartTransaction message.

## Test Configuration

Test Configuration	
Vendor	Alfen N.V.
DUT / SUT	Charge Point
Communication	JSON
Type	Eve Double Pro-line
OCPP Software version	4.7.1
OCTT version	OCTT 1.6 v1.3


Hardware feature set	
Feature	Configuration
Socket(s) / connector(s)	multiple
Fixed cable	No
Communication technology	ethernet / mobile network
RFID readers	one for the entire station


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	TRUE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	<optional>
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	0.RST
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	35
HeartbeatInterval	30
LightIntensity	10
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	TRUE
MaxEnergyOnInvalidId	0
MessageTimeout	<optional>
MeterValuesAlignedData	0
MeterValuesAlignedDataMaxLength	9
MeterValuesAlignedDataMaxLength	9
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	9
MeterValueSampleInterval	900
MinimumStatusDuration	<optional>
NumberOfConnectors	2
ResetRetries	0
StopTransactionMaxMeterValues	<optional>
StopTransactionOnEVSideDisconnect	FALSE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	0
StopTxnAlignedDataMaxLength	0
StopTxnSampledData	0
StopTxnSampledDataMaxLength	0
SupportedFeatureProfiles	Core,FirmwareManagement,Reserva tion,LocalAuthListManagement,Rem oteTrigger,SmartCharging
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	120
LocalAuthListEnabled	TRUE
LocalAuthListMaxLength	884
SendLocalListMaxLength	46
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	15
ChargingScheduleAllowedChargingRateUnit	current
ChargingScheduleMaxPeriods	100
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	45
SupportedFileTransferProtocols	FTP

### Statement of Approval

<b>Vendor</b>		<b>Date:</b> <date>
<b>Name</b>	Lambert Mühlenberg	Signature
<b>Company</b>	Alfen N.V.	
<b>Department</b>	Electronics	
<b>Position</b>	Test Engineer	
<b>Location</b>	Arnhem, The Netherlands	

<b>Test laboratory</b>		<b>Date:</b> 17-01-2020
<b>Name</b>	Laurens Mooi	Signature
<b>Company</b>	Dekra Certification BV	
<b>Department</b>	Consumer Safety	
<b>Position</b>	Test Engineer	
<b>Location</b>	Arnhem, The Netherlands	