OCPP 1.6 Full Certificate



Certificate holder:	ecarPlug Co., Ltd.
Certificate number:	OCA.0016.0060.CS
Product type:	Charging Station
Product designation:	AC/CPT_OCPP OCPP Software version: 1.0.0 / Hardware feature set as stated below
Certification date:	January 25, 2022

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
Conformance testing according to the test specification referenced by the test report	Korea Smart Grid Association, January 25, 2022	KSGA_20220124_Test Report_EcarPlug

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

Abstract of test report

Test Result Summary

Test Result Summury			
Test Report	OCPP 1.6	Certification	
Test laboratory:	Korea Smart	Grid Association	
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.	6TEST-006-2022	
Vendor name:	EcarPlug		
Device Under Test:	Charging Stat	ion	
Communication:	JSON		
OCPP Software version:	1.0.0		
Test Result Summary	/ for the ce	rtified functionalities	
Functionalities	OCPP 1.6	Description	
	Certification		
	Test Results		
Core	Pass	Basic Charging Station functionality	
		for booting, authorization (incl. cache	
		if available), configuration,	
		transactions, remote control.	
Optional functionalities			
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 Manageme	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.	

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Performance Measurement Results

Performance Measurement Results				
Name PICS value Measured value Description				
OCPP triggered function timeout:	60s	00:00:10	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:	60s	00:00:38	The response time for when waiting for an OCPP response message.	
Response time RemoteStartTransaction:	60s	00:00:00	The response time for the RemoteStartTransaction message.	

Test Configuration

Test Configuration				
Vendor	EcarPlug			
DUT / SUT	Charging Station			
Communication	JSON			
Туре	AC/CPT_OCPP			
OCPP Software version 1.0.0				
OCTT version	OCTT 1.6 v1.4.2			

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Multiple			
Fixed cable	<yes></yes>			
Communication technology	Mobile Network	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.	Yes

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OCPP Charging Station	Configuration		
Configuration key	Value		
AllowOfflineTxForUnknownId	TRUE		
AuthorizationCacheEnabled	FALSE		
AuthorizeRemoteTxRequests	TRUE		
BlinkRepeat	5		
ClockAlignedDataInterval	60		
ConnectionTimeOut	60		
ConnectorPhaseRotation			
	RST		
ConnectorPhaseRotationMaxLength	1		
GetConfigurationMaxKeys	50		
HeartbeatInterval	10		
LightIntensity	10		
LocalAuthorizeOffline	TRUE		
LocalPreAuthorize	FALSE		
MaxEnergyOnInvalidId	0		
MessageTimeout	300		
MeterValuesAlignedData	Energy.Active.Import.Register		
MeterValuesAlignedDataMaxLength	10		
MeterValuesAlignedDataMaxLength	0		
MeterValuesSampledData	Energy.Active.Import.Register		
MeterValuesSampledDataMaxLength	1		
MeterValueSampleInterval	10		
MinimumStatusDuration	0		
NumberOfConnectors	1		
ResetRetries	3		
StopTransactionMaxMeterValues	0		
StopTransactionOnEVSideDisconnect	TRUE		
StopTransactionOnInvalidId	TRUE		
StopTxnAlignedData	Energy.Active.Import.Register		
StopTxnAlignedDataMaxLength	0		
StopTxnSampledData	Energy.Active.Import.Register		
StopTxnSampledDataMaxLength	0		
	Core,FirmwareManagement,LocalAut		
	hListManagement,Reservation,Smart		
SupportedFeatureProfiles	Charging, Remote Trigger		
SupportedFeatureProfilesMaxLength	6		
TransactionMessageAttempts	3		
TransactionMessageRetryInterval	60		
UnlockConnectorOnEVSideDisconnect	FALSE		
WebSocketPingInterval	0		
LocalAuthListEpobled	TDUE		
LocalAuthListEnabled	TRUE		
LocalAuthListMaxLength	0		
SendLocalListMaxLength	0		
ReserveConnectorZeroSupported	FALSE		
ChargeProfileMaxStackLevel	3		
ChargingScheduleAllowedChargingRateUnit	Ampere		
ChargingScheduleMaxPeriods	16		
ConnectorSwitch3to1PhaseSupported	FALSE		
MaxChargingProfilesInstalled	24		
SupportedFileTransferProtocols	http, https		

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Statement of Approval

Vendor		Date: 2022.01.24	
Name	Kwang Seob Shin	Signature	
Company	ecarPlug Co., Ltd.	2005 7	
Department	President	L MAG	1
Position	CEO	6 6	1
Location	Seongnam, Korea		

Test laboratory		Date: 2022.01.24
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	6
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	

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