# OCPP 1.6 Subset Certificate



Certificate holder: MOTREX EV

Certificate number: OCA.0016.0476.CS

Product type: Charging Station

Product designation: CR-S7KS-HE

OCPP Software version: V1.0.1

Certification date: August 21, 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
Conformance testing according to the test specification referenced by the test report	Korea Smart Grid Association, August 21, 2023	(KSGA)MOTREX EV_Test Report template_230821

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

•	3011 1.0			
Test laboratory:	Korea Smart Grid Association			
Location:	Seoul , Korea			
Test Report Reference:	KSGA-OCPP1.6TEST-153-2023			
Vendor name:	MOTREX EV			
Device Under Test:	Charging Stati	on		
Communication:	JSON			
OCPP Software version:	V1.0.1			
Test Result Summary	for the ce	ertified functionalities		
Functionalities	OCPP 1.6	Description		
	Certification			
	Test Results			
Core	Pass  Basic Charging Station functionalit booting, authorization (incl. cache available), configuration, transactio 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.		

Test Report OCPP 1.6 Certification

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### Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	20s	80:00:00	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:	5s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	5s	00:00:00	The response time for the RemoteStartTransaction message.

## Test Configuration

Vendor	MOTREX EV
DUT / SUT	Charging Station
Communication	JSON
Туре	CR-S7KS-HE
OCPP Software version	V1.0.1
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Single			
Fixed cable	<yes></yes>			
Communication technology	Ethernet			
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 Yes timestamps.				

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LocalAuthListMaxLength         -           SendLocalListMaxLength         -           ReserveConnectorZeroSupported         -           ChargeProfileMaxStackLevel         -           ChargingScheduleAllowedChargingRateUnit         -           ChargingScheduleMaxPeriods         -           ConnectorSwitch3to1PhaseSupported         -	OCPP Charging Station	Configuration
Allow Offfine TxForUnknownId         FALSE           AuthorizationCacheEnabled         FALSE           AuthorizeRemoteTxRequests         FALSE           BlinkRepeat         -           ClockAlignedDataInterval         0           ConnectorTimeOut         60           ConnectorPhaseRotation         0.RST,1RST,2RTS           ConnectorPhaseRotationMaxLength         -           GetConfigurationMaxKeys         24           HeartbeatInterval         20           Lighthtensity         -           LocalPuthorizeOffline         FALSE           LocalPreAuthorize         FALSE           MaxEnergyOnInvalidid         -           MessageTimeout         -           MeterValuesAlignedData         Energy.Active.Import.Register           MeterValuesAlignedData         Energy.Active.Import.Register           MeterValuesSampledData         Energy.Active.Import.Register           MeterValueSampleInterval         30           MinimumStatusDuration         -           NumberOfConnectors         1           ResetRetries         0           StopTransactionOnEvSideDisconnect         TRUE           StopTxnAlignedData         Energy.Active.Import.Register           StopTxnAlignedData	Configuration key	Value
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ConnectorSwitch3to1PhaseSupported -		-
No.		
	MaxChargingProfilesInstalled	
SupportedFileTransferProtocols -	SupportedFileTransferProtocols	-

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### Statement of Approval

Vendor			Date: 2023.08.21
Name	Jay OH		Signature
Company	MOTREX EV		
Department	R&D Center		2 amp
Position	CEO		anine
Location	Gyeonggi-do, Korea		V.

Test laboratory		Date: 2023.08.21
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	6
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	,