OCPP 1.6 Subset Certificate



Certificate holder: HumaxEV Co., Ltd.

Certificate number: OCA.0016.0165.CS

Product type: Charging Station

Product subtype: Mode 1/2-only Charging Station

Product designation: HEV-C1003

OCPP Software version: HCA01.02.006 Hardware feature set as stated below

Certification date: July 4, 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 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, July 4, 2022	KSGA_20220704_Test Report _Mode 1,2-only_HumaxEV

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 Report	OCPP 1.6	Certification	
Test laboratory:	laboratory: Korea Smart Grid Association		
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.	6TEST-090-2022	
Vendor name:	HUMAX EV		
Device Under Test:	Mode 1/2-on	ly Charging Station	
Communication:	JSON		
OCPP Software version:	HCA01.02.006		
Test Result Summary	for the ce	rtified 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

Performance Measurement Results			
Name	PICS value	Measured value	Description
OCPP triggered function timeout:	10s	00:00:02	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:	10s	00:00:05	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10s	00:00:01	The response time for the RemoteStartTransaction message.

Test Configuration

Test Configuration

Vendor	HUMAX EV
DUT / SUT	Mode 1/2-only Charging Station
Communication	JSON
Туре	HEV-C1003
OCPP Software version	HCA01.02.006
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set			
Feature	Configuration		
Socket(s) / connector(s)	Single		
Fixed cable	<no></no>		
Communication technology	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	



OCPP Charging Station Configuration				
Configuration key	Value			
AllowOfflineTxForUnknownId	-			
AuthorizationCacheEnabled	-			
AuthorizeRemoteTxRequests	FALSE			
BlinkRepeat	-			
ClockAlignedDataInterval	0			
ConnectionTimeOut	90			
ConnectorPhaseRotation	0.NotApplicable			
Connector Phase Rotation Max Length	1			
GetConfigurationMaxKeys	20			
HeartbeatInterval	15			
LightIntensity	-			
LocalAuthorizeOffline	FALSE			
LocalPreAuthorize	FALSE			
MaxEnergyOnInvalidId	-			
MessageTimeout	-			
Meter Values Aligned Data	Energy.Active.Import.Register			
Meter Values Aligned Data Max Length	1			
Meter Values Sampled Data	Energy.Active.Import.Register			
Meter Values Sampled Data Max Length	1			
MeterValueSampleInterval	300			
MinimumStatusDuration	0			
NumberOfConnectors	1			
ResetRetries	3			
StopTransactionMaxMeterValues	20			
StopTransactionOnEVSideDisconnect	TRUE			
StopTransactionOnInvalidId	TRUE			
StopTxnAlignedData	Energy.Active.Import.Register			
Stop Txn Aligned Data Max Length	1			
StopTxnSampledData	Energy.Active.Import.Register			
Stop Txn Sampled Data Max Length	1			
SupportedFeatureProfiles	Core			
Supported Feature Profiles Max Length	1			
TransactionMessageAttempts	3			
TransactionMessageRetryInterval	15			
UnlockConnectorOnEVSideDisconnect	FALSE			
WebSocketPingInterval	300			
LocalAuthListEnabled	-			
LocalAuthListMaxLength	-			
SendLocalListMaxLength	-			
ReserveConnectorZeroSupported	-			
Charge Profile Max Stack Level	-			
Charging Schedule Allowed Charging Rate Unit	-			
Charging Schedule Max Periods	-			
ConnectorSwitch3to1PhaseSupported	_			
MaxChargingProfilesInstalled	_			
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Statement of Approval

Vendor		Date: 2022.07.05	
Name	Wanju Kwon	Signature	
Company	Humaxev Co., Ltd.		
Department	Software team	l QuA	
Position	Team leader	Cen	
Location	Seongnam, Korea	0	

Test laboratory		Date : 2022.07.05
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	6
Department	Quality Certification Center	
Position	Senior Researcher	A.
Location	Seoul, Korea	/