

OCPP 1.6 Subset Certificate



Certificate holder: CASTPRO CO., LTD

Certificate number: OCA.0016.0063.CS

Product type: Charging Station

Product designation: Hello Charger (CSC-14000B7)
OCPP Software version: 1.0.21 / Hardware feature set as stated below

Certification date: March 11, 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
<i>Conformance testing according to the test specification referenced by the test report</i>	<i>Korea Smart Grid Association, March 11, 2022</i>	<i>KSGA_20220311_Test Report_CASTPRO</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.

Abstract of test report

Test Result Summary

Test Report OCPP 1.6 Certification	
Test laboratory:	Korea Smart Grid Association
Location:	Seoul , Korea
Test Report Reference:	KSGA-OCPP1.6TEST-019-2022
Vendor name:	CASTPRO
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	1.0.21

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 functionalities		
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:	60s	00:00:53	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:	15s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	15s	00:00:01	The response time for the RemoteStartTransaction message.

Test Configuration

Test Configuration

Vendor	CASTPRO
DUT / SUT	Charging Station
Communication	JSON
Type	CSC-14000B7
OCPP Software version	1.0.21
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set

Feature	
Socket(s) / connector(s)	Multiple
Fixed cable	<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 timestamps.	No

OCPP Charging Station Configuration	
Configuration key	Value
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	
GetConfigurationMaxKeys	40
HeartbeatInterval	90
LightIntensity	
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	
MessageTimeout	
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	10
MeterValuesAlignedDataMaxLength	10
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	10
MeterValueSampleInterval	30
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	2
StopTransactionMaxMeterValues	0
StopTransactionOnEVSideDisconnect	FALSE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	10
StopTxnSampledData	Energy.Active.Import.Register
StopTxnSampledDataMaxLength	10
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	
TransactionMessageAttempts	2
TransactionMessageRetryInterval	90
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	0
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	100
SendLocalListMaxLength	10
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	3
ChargingScheduleAllowedChargingRateUnit	Watt
ChargingScheduleMaxPeriods	10
ConnectorSwitch3to1PhaseSupported	
MaxChargingProfilesInstalled	10
SupportedFileTransferProtocols	ftp

Statement of Approval

Vendor		Date: 2022.03.11
Name	Jae Ho LEE	 CASTPRO CO.,LTD / PRESIDENT
Company	CASTPRO CO., LTD	
Department	R&D	
Position	CEO	
Location	Seongnam, Korea	

Test laboratory		Date: 2022.03.11
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	