# OCPP 1.6 Full Certificate



Korea Electrotechnology Research

Certificate holder: Institute

Certificate number: OCA.0016.0020.CS

Product type: Charging Station

Product designation: KCS-001, OCPP Software version: 1.0.1

Certification date: September 6, 2021

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, September 6, 2021	KSGA_20210906_Test Report_KERI_V105

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:	Korea Smart Grid Association		
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-006-2021		
Vendor name:	KERI(Korea Electrotechnology Research Institute)		
Device Under Test:	Charging Station		
Communication:	JSON		
OCPP Software version:	1.0.1		
Test Result Summary	for the ce	rtified functionalities	
Functionalities	OCPP 1.6	Description	
	Certification		
	<b>Test Results</b>		
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	
Reservation	rass	connector of a Charging Station.	
		connector of a charging station.	
Local Authorization List Management	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	00:00:06	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	00:00:15	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	KERI
DUT / SUT	Charging Station
Communication	JSON
Туре	KCS-001
OCPP Software version	1.0.1
OCTT version	OCTT 1.6 v1.4.2

Hardware feature set			
Fonture	Configuration		
Feature	Configuration		
Socket(s) / connector(s)	Single		
Fixed cable	<yes></yes>		
Communication technology	Wifi		
RFID readers	Single		

Non-OCPP Charge Point Configuration			
Configuration key		Value	
		◇	



OCPP Charging Station Configuration			
Configuration key	Value		
AllowOfflineTxForUnknownId	TRUE		
AuthorizationCacheEnabled	TRUE		
AuthorizeRemoteTxRequests	TRUE		
BlinkRepeat	5		
ClockAlignedDataInterval	60		
ConnectionTimeOut	60		
ConnectorPhaseRotation	RST		
ConnectorPhaseRotationMaxLength	1		
GetConfigurationMaxKeys	45		
HeartbeatInterval	10		
LightIntensity	10		
Local Authorize Offline	TRUE		
LocalPreAuthorize	FALSE		
MaxEnergyOnInvalidId	0		
MessageTimeout	300		
MeterValuesAlignedData	Energy.Active.Import.Register		
MeterValuesAlignedDataMaxLength	10		
MeterValuesAlignedDataMaxLength	10		
MeterValuesSampledData	Energy.Active.Import.Register		
MeterValuesSampledDataMaxLength	10		
MeterValueSampleInterval	10		
MinimumStatusDuration	0		
NumberOfConnectors	1		
ResetRetries	3		
StopTransactionMaxMeterValues	2.147.483.647		
StopTransactionMaxMetervardes StopTransactionOnEVSideDisconnect	7RUE		
<u> </u>	TRUE		
StopTransactionOnInvalidId	Energy.Active.Import.Register		
StopTxnAlignedData			
StopTxnAlignedDataMaxLength	10		
StopTxnSampledData	Energy.Active.Import.Register		
StopTxnSampledDataMaxLength	10		
	Core,FirmwareManagement,Lo		
	calAuthListManagement,Reser		
C	vation,SmartCharging,RemoteT		
SupportedFeatureProfiles	rigger		
SupportedFeatureProfilesMaxLength	6		
TransactionMessageAttempts	3 60		
TransactionMessageRetryInterval			
UnlockConnectorOnEVSideDisconnect	FALSE		
WebSocketPingInterval	0		
1 18 - 45 11 - 45 5 11	TRUE		
LocalAuthListEnabled			
LocalAuthListEnabled LocalAuthListMaxLength	1000000		
	1000000 45000		
LocalAuthListMaxLength			
LocalAuthListMaxLength SendLocalListMaxLength ReserveConnectorZeroSupported	45000		
LocalAuthListMaxLength SendLocalListMaxLength ReserveConnectorZeroSupported ChargeProfileMaxStackLevel	45000 TRUE 255		
LocalAuthListMaxLength SendLocalListMaxLength ReserveConnectorZeroSupported ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateU	45000 TRUE 255 ampere		
LocalAuthListMaxLength SendLocalListMaxLength ReserveConnectorZeroSupported ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateU ChargingScheduleMaxPeriods	45000 TRUE 255 ampere 255		
LocalAuthListMaxLength SendLocalListMaxLength ReserveConnectorZeroSupported ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateU	45000 TRUE 255 ampere		

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### Statement of Approval

Vendor			Date: 2021.09.06
Name	Son Sang Woo		Signature
Company	KERI		_
Department	Power ICT Research Center		6 Ans
Position	Researcher		
Location	Gyeonggi-do, Korea		. /

Test laboratory		Date: 2021.09.06	
Name	Philip YANG	Signature	
Company	Korea Smart Grid Association	7	
Department	Quality Certification Center		
Position	Senior Researcher		
Location	Seoul, Korea	/	