# OCPP 1.6 Subset Certificate



Certificate holder: KERI (Korea Electrotechnology Research Institute)

Certificate number: OCA.0016.0089.CS

Product type: Charging Station

Product subtype: Mode 1/2-only Charging Station

Product designation: KM12CP-001

OCPP Software version: 1.0

Hardware feature set as stated below

Certification date: May 17, 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, May 17, 2022	KSGA_20220517_Test Report _Mode 1,2-only CS_KERI

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



## **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-038-2022		
Vendor name:	KERI		
Device Under Test:	Mode 1/2-only Charging Station		
Communication:	JSON		
OCPP Software version:	1,0		
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.	
		transactions, remote control.	
Optional features	D		
Firmware Management	Pass	Support for (remote) firmware update management and diagnostic log file	
		download.	
Sweet Charrier	A1/A		
Smart Charging	N/A	Support for Smart Charging (all profile	
		types, including stacking), to control	
Reservation	Pass	charging. Support for reservation of a connector	
Reservation	rass	of a Charging Station.	
		or 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.	

Test Report OCPP 1.6 Certification



#### Performance Measurement Results

Performance Measurement Results			
Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60s	00:00:05	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	00:00:01	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

rest Configuration				
Vendor	KERI			
DUT / SUT	Mode 1/2-only Charging Station			
Communication	JSON			
Туре	KM12CP-001			
OCPP Software version	1,0			
OCTT version	OCTT 1.6 v1.4.3			

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



Reservation, SmartCharging  SupportedFeatureProfilesMaxLength 10  TransactionMessageAttempts 3  TransactionMessageRetryInterval 60  UnlockConnectorOnEVSideDisconnect FALSE  WebSocketPingInterval 0  LocalAuthListEnabled FALSE  LocalAuthListMaxLength 1000000  SendLocalListMaxLength 45000  ReserveConnectorZeroSupported TRUE  ChargeProfileMaxStackLevel  ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported  MaxChargingProfilesInstalled		
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StopTxnSampledDataMaxLength SupportedFeatureProfiles SupportedFeatureProfiles SupportedFeatureProfilesMaxLength TransactionMessageAttempts TransactionMessageRetryInterval UnlockConnectorOnEVSideDisconnect WebSocketPingInterval  LocalAuthListEnabled LocalAuthListMaxLength Table SupportedFeatureProfilesMaxLength TransactionMessageRetryInterval FALSE WebSocketPingInterval  LocalAuthListEnabled TALSE LocalAuthListMaxLength Table Table LocalAuthListMaxLength Table ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported MaxChargingProfilesInstalled		
SupportedFeatureProfiles  Core, LocalAuthListManagement, FirmwareManagement, Reservation, SmartCharging  SupportedFeatureProfilesMaxLength  10  TransactionMessageAttempts  3  TransactionMessageRetryInterval  60  UnlockConnectorOnEVSideDisconnect  FALSE  WebSocketPingInterval  0  LocalAuthListEnabled  LocalAuthListEnabled  FALSE  LocalAuthListMaxLength  1000000  SendLocalListMaxLength  45000  ReserveConnectorZeroSupported  TRUE  ChargeProfileMaxStackLevel  ChargingScheduleAllowedChargingRateUnit  ChargingScheduleMaxPeriods  ConnectorSwitch3to1PhaseSupported  MaxChargingProfilesInstalled		
SupportedFeatureProfiles  Reservation, SmartCharging  SupportedFeatureProfilesMaxLength  10  TransactionMessageAttempts 3  TransactionMessageRetryInterval 60  UnlockConnectorOnEVSideDisconnect FALSE WebSocketPingInterval 0  LocalAuthListEnabled FALSE LocalAuthListMaxLength 1000000  SendLocalListMaxLength 45000  ReserveConnectorZeroSupported TRUE  ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported  MaxChargingProfilesInstalled	StopTxnSampledDataMaxLength	1.5
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UnlockConnectorOnEVSideDisconnect  WebSocketPingInterval  LocalAuthListEnabled  LocalAuthListMaxLength  LocalAuthListMaxLength  SendLocalListMaxLength  45000  ReserveConnectorZeroSupported  TRUE  ChargeProfileMaxStackLevel  ChargingScheduleAllowedChargingRateUnit  ChargingScheduleMaxPeriods  ConnectorSwitch3to1PhaseSupported  MaxChargingProfilesInstalled	Transaction Message Attempts	3
WebSocketPingInterval  LocalAuthListEnabled FALSE LocalAuthListMaxLength 1000000 SendLocalListMaxLength 45000 ReserveConnectorZeroSupported TRUE  ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported  MaxChargingProfilesInstalled	Transaction Message Retry Interval	60
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SendLocalListMaxLength 45000 ReserveConnectorZeroSupported TRUE  ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported MaxChargingProfilesInstalled	LocalAuthListEnabled	FALSE
ReserveConnectorZeroSupported TRUE  ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported MaxChargingProfilesInstalled	Local Auth List Max Length	1000000
ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported MaxChargingProfilesInstalled	SendLocalListMaxLength	45000
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ChargingScheduleMaxPeriods ConnectorSwitch3to1PhaseSupported MaxChargingProfilesInstalled	-	
ConnectorSwitch3to1PhaseSupported  MaxChargingProfilesInstalled		
MaxChargingProfilesInstalled		
SupportedFileTransferProtocols http.https.ftp	MaxChargingProfilesInstalled	
The state of the s	SupportedFileTransferProtocols	http,https,ftp

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### Statement of Approval

Vendor		Date: 2022.04.05
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Test laboratory			<b>Date</b> : 2022.04.05
Name	Philip YANG		Signature
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