OCPP 1.6 Subset Certificate



Certificate holder: Klinelex

Certificate number: OCA.0016.0046.CS

Product type: Charging Station

Product designation: KLIN OCM

OCPP Software version: 1.0.0

Certification date: February 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
Conformance testing according to the test specification referenced by the test report	Korea Smart Grid Association, February 11, 2022	KSGA_20220211_Test Report_Klinelex_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:

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Abstract of test report

Test Result Summary

Test laboratory:	Korea Smart Grid Association		
Location:	Seoul , Korea		
Test Report Reference:	KSGA_20220211_Test Report_Klinelex_V105		
Vendor name:	Klinelex		
Device Under Test:	Charging Stat	ion	
Communication:	JSON		
OCPP Software version:	1.0.0		
Test Result Summary	for the ce	ertified 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 Managemer	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

Performance Measurement Results			
Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60s	00:00:33	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	00:00:02	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

Test Configuration

Vendor	Klinelex
DUT / SUT	Charging Station
Communication	JSON
Туре	KLIN_OCM
OCPP Software version	1.0.0
OCTT version	OCTT 1.6 v1.4.2

Hardware feature set			
Feature			
Socket(s) / connector(s)	Single		
Fixed cable	<yes></yes>		
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	FALSE
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	25
ConnectorPhaseRotation	RST
Connector Phase Rotation Max Length	0
GetConfigurationMaxKeys	27
Heartbeatinterval	10
LightIntensity	-
Local Authorize Offline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	FALSE
MessageTimeout	FALSE 60
Meter Values Aligned Data	Energy.Active.Import.Register
Meter Values Aligned Data Max Length	100
	100
MeterValuesAlignedDataMaxLength MeterValuesSampledData	
	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	100
MeterValueSampleInterval	10
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	1
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	FALSE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	-
StopTxnSampledData	Energy.Active.Import.Register
StopTxnSampledDataMaxLength	-
	Core, Local Auth List Management, S
SupportedFeatureProfiles	martCharging
SupportedFeatureProfilesMaxLength	0
Transaction Message Attempts	1
Transaction Message Retry Interval	1
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	60
LocalAuthListEnabled	FALSE
Local AuthList Max Length	50
SendLocalListMaxLength	50
ReserveConnectorZeroSupported	FALSE
ChargeProfileMaxStackLevel	30
-	
ChargingScheduleAllowedChargingRateUnit	Ampere
ChargingScheduleMaxPeriods	10
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	10
SupportedFileTransferProtocols	ftp, ftps

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Statement of Approval

Vendor		Date: 2022.02.11	
Name	Lee Hyo Young	Signature	
Company	Klinelex Co., Ltd.	Λ	
Department	Headquarters	01 M. M	
Position	CEO	10/1000	
Location	Korea		

Test laboratory			Date: 2022.02.11
Name	Philip YANG		Signature
Company	Korea Smart Grid Association		4
Department	Quality Certification Center	y Certification Center	
Position	Senior Researcher		
Location	Seoul, Korea		,