OCPP 1.6 Subset Certificate



Certificate holder: Klinelex Co., Ltd.

Certificate number: OCA.0016.0468.CS

Product type: Charging Station

Product designation: KL4214-CC(N)

OCPP Software version: 1.0.0

Hardware feature set as stated below

Certification date: August 18, 2023

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, August 18, 2023	(KSGA)Klinelex_Test Report template_KL4214-CC(N)_230818

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 Report OCPP 1.6 Certification			
Test laboratory:	Korea Smart Grid Association		
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-149-2023		
Vendor name:	Klinelex Co., Ltd.		
Device Under Test:	Charging Station		
Communication:	JSON		
OCPP Software version:	1.0.0		
Test Result Summary for the certified functionalities			

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 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.

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Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	10s	00:00:01	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	00:00:01	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

Vendor	Klinelex Co., Ltd.
DUT / SUT	Charging Station
Communication	JSON
Туре	KL4214-CC(N)
OCPP Software version	1.0.0
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set			
Feature Configuration			
Socket(s) / connector(s)	Multiple		
Fixed cable	<yes></yes>		
Communication technology	Ethernet, 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	1		
ClockAlignedDataInterval	o o		
ConnectionTimeOut	-		
ConnectorPhaseBotation	180		
	RST		
ConnectorPhaseRotationMaxLength	2		
GetConfigurationMaxKeys	27		
HeartbeatInterval	60		
LightIntensity	50		
LocalAuthorizeOffline	FALSE		
LocalPreAuthorize	FALSE		
MaxEnergyOnInvalidId	0		
MessageTimeout	-		
MeterValuesAlignedData	Energy. Active. Import. Register		
MeterValuesAlignedDataMaxLength	10		
	Energy.Active.Import.Register,		
MeterValuesSampledData	Voltage, Current.Import,		
Treter value so ample abata	Power, Active, Import		
MeterValuesSampledDataMaxLength	10		
MeterValueSampleInterval	10		
MinimumStatusDuration			
NumberOfConnectors	0		
	2		
ResetRetries	1		
StopTransactionMaxMeterValues	100		
StopTransactionOnEVSideDisconnect	TRUE		
StopTransactionOnInvalidId	FALSE		
StopTxnAlignedData	-		
StopTxnAlignedDataMaxLength	10		
StopTxnSampledData	-		
StopTxnSampledDataMaxLength	10		
SupportedFeatureProfiles	Core		
SupportedFeatureProfilesMaxLength	6		
TransactionMessageAttempts	2		
TransactionMessageRetryInterval	90		
UnlockConnectorOnEVSideDisconnect	TRUE		
WebSocketPingInterval	120		
LocalAuthListEnabled	-		
LocalAuthListMaxLength	-		
SendLocalListMaxLength	-		
ReserveConnectorZeroSupported	-		
ChargeProfileMaxStackLevel	-		
ChargingScheduleAllowedChargingRateUnit	-		
ChargingScheduleMaxPeriods	-		
ConnectorSwitch3to1PhaseSupported	-		
MaxChargingProfilesInstalled	-		
SupportedFileTransferProtocols	http, ftp		

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Statement of Approval

Vendor		Date: 2023.08.18
Name	Lee Hyo Young	Signature
Company	Klinelex Co., Ltd.	
Department	Headquarters	017,11
Position	CEO	
Location	Gunpo, Korea	

Test laboratory		Date: 2023.08.18
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	6
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	/