OCPP 1.6 Subset Certificate



Certificate holder: Klinelex Co., Ltd.

Certificate number: OCA.0016.0474.CS

Product type: Charging Station

Product designation: KL4322-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_KL4322-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:

ONOPH CARON



Abstract of test report

Test Result Summary

Page 1 from 4



Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	10s	00:00:02	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	KL4322-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	180
ConnectorPhaseRotation	RST
ConnectorPhaseRotationMaxLength	1
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,
	Power. Active. Import
MeterValuesSampledDataMaxLength	10
MeterValueSampleInterval	20
MinimumStatusDuration	0
NumberOfConnectors	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	60
LocalAuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	http, ftp

Page 3 from 4



Statement of Approval

Vendor			Date: 2023.08.18
Name	Lee Hyo Young		Signature
Company	Klinelex Co., Ltd.		1 1 1
Department	Headquarters		017, 11
Position	CEO		0/14/6
Location	Gunpo, Korea		

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