OCPP 1.6 Subset Certificate



Certificate holder: Klinelex Co., Ltd

Certificate number: OCA.0016.0757.CS

Product type: Charging Station

Product designation: KL46-C

OCPP Software version: 1.0.0

Hardware feature set as stated below

Certification date: May 24, 2024

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 Testing Certification institute, May 24, 2024	KTC2024-00353_Test report_signed

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 laboratory:	Korea Testing Certification institute		
Location:	Gyeonggi-do Korea		
Test execution location:	Gyeonggi-do Korea		
Test Report Reference:	KTC2024-00353		
Vendor name:	VIINELEV		
Device Under Test:	KLINELEX		
Communication:	Charging Station	711	
OCPP Software version:			
	1.0.0		
Product designation:	KL46-C		
Test Result Summar	y for the cei	tified 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.	
Optional features			
Firmware Management	Pass	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	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

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Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	80 s	00:00:08	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:	10 s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	KLINELEX
DUT / SUT	Charge Point
Communication	JSON
Туре	KL46-C
OCPP Software version	1.0.0
OCTT version	OCTT 1.6 v1.4.4

Hardware feature set			
Feature	Configuration		
Socket(s) / connector(s)	single		
Fixed cable	Yes		
Communication technology	Ethernet, Mobile network		
RFID readers	single		

Non-OCPP Charge Point Configuration			
Configuration key	Value		
Additional Root Certificate Check	FALSE		
AuthorizationKey			
CertificateSignedMaxChainSize	10000		
CertificateStoreMaxLength	10		
CpoName	Klinelex Co., Ltd		
CsNo	36		
EvseNo	[\"61004\"]		
SecurityProfile	2		
ServerCertificateVerify	Trust		
ServerUri	10.10.230.6:57031/ocpp/		
Vendor	com.klinelex		

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		



Configuration key	Value
AllowOfflineTxForUnknownId	FALSE
AuthorizationCacheEnabled	FALSE
	TRUE
AuthorizeRemoteTxRequests	1
BlinkRepeat	
ClockAlignedDataInterval	10
ConnectionTimeOut	60
ConnectorPhaseRotation	RST
ConnectorPhaseRotationMaxLength	1
GetConfigurationMaxKeys	10
HeartbeatInterval	300
LightIntensity	50
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	TRUE
MaxEnergyOnInvalidId	0
MessageTimeout	-
MeterValuesAlignedData	
Meter Values Aligned Data Max Length	10
	Energy.Active.Import.Register,Soc
	Voltage,Current.Import,Power.Act
MeterValuesSampledData	ve.Import
Meter Values Sampled Data Max Length	10
Meter Value Sample Interval	60
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	1
	1
StopTransactionMaxMeterValues	TRUE
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	
StopTxnAlignedDataMaxLength	10
Stop Txn Sampled Data	
StopTxnSampledDataMaxLength	10
	Core,FirmwareManagement,Remo
SupportedFeatureProfiles	eTrigger,LocalAuthListManagemen
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	2
TransactionMessageRetryInterval	90
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	300
Local Auth List Enabled	TRUE
LocalAuthListMaxLength	10000
SendLocalListMaxLength	10000
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	
ChargingScheduleAllowedChargingRateUnit	<u> </u>
ChargingScheduleMaxPeriods	
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	HTTP,FTP

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Statement of Approval

Vendor		Date: 2024-05-24
Name	Lee Hyo Young	Signature
Company	Klinelex Co., Ltd.	Λ
Department	Headquarters	01 M. M
Position	CEO	0/14/6
Location	Korea	V

Test laboratory		Date: 2024-05-14	
Name	Sol Cho	Signature	
Company	Korea Testing Certification institute	010 51	
Department	EV Charging & Power Transfer Center	La Way	
Position	Research engineer	1//////	
Location	Gyeonggi-do, Korea	, ,	