OCPP 1.6 Subset Certificate



Certificate holder: Koolsign Co., Ltd

Certificate number: OCA.0016.0651.CS

Product type: Charging Station

Product designation: KCA7P-L5G

OCPP Software version: v1.4.8

Hardware feature set as stated below

Certification date: February 16, 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 Smart Grid Association, February 16, 2024	(KSGA)KOOLSIGN_Test Report_KCA7P-L5G_v1.5

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 Report OCPP 1.6 Certification			
Test laboratory: Korea Smart Grid Association			
Seoul, Korea			
Test execution location: KSGA Test Lab			
Test Report Reference: KSGA-OCPP1.6TEST-026-2024			
Koolsign Co., Ltd			
Charging Station			
Communication: JSON			
OCPP Software version: v1.4.8			
KCA7P-L5G			
	Korea Smart Grid Association Seoul, Korea KSGA Test Lab KSGA-OCPP1.6TEST-026-2024 Koolsign Co., Ltd Charging Station JSON v1.4.8		

Test Result Summary	for the ce	rtified 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 Manageme	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:	30s	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:	30s	00:00:05	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Koolsign Co., Ltd
DUT / SUT	Charging Station
Communication	JSON
Туре	KCA7P-L5G
OCPP Software version	v1.4.8
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Single			
Fixed cable	<yes></yes>			
Communication technology	Ethernet			
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				



Configuration key	Value
AllowOfflineTxForUnknownId	FALSE
AuthorizationCacheEnabled	FALSE
Authorization Cache Enabled Authorize Remote TxRequests	TRUE
BlinkRepeat	3
ClockAlignedDataInterval	10
ConnectionTimeOut	60
ConnectorPhaseRotation	Unknown
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	10
HeartbeatInterval	20
LightIntensity	80
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	0
MessageTimeout	-
NA -t Aliana -d Data	Energy.Active.Import.Register,Currer
Meter Values Aligned Data	t.Export,Temperature
MeterValuesAlignedDataMaxLength	5
	Energy.Active.Import.Register,Tempo
Meter Values Sampled Data	rature
MeterValuesSampledDataMaxLength	10
MeterValueSampleInterval	10
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	3
StopTransactionMaxMeterValues	100
StopTransactionMaxMeter values StopTransactionOnEVSideDisconnect	TRUE
•	
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Sample.Periodic
StopTxnAlignedDataMaxLength	5
StopTxnSampledData	Energy. Active. Import. Register, Currer t. Export, Temperature
StopTxnSampledDataMaxLength	5
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	0
Transaction Message Attempts	3
Transaction Message Retry Interval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	30
LocalAuthListEnabled	-
Local Auth List Max Length	-
Send Local List Max Length	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
Charging Schedule Allowed Charging Rate Unit	-
Charging Schedule Max Periods	
Connector Switch 3 to 1 Phase Supported	-
MaxChargingProfilesInstalled	-

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Statement of Approval

Vendor		Date : 2024.02.16
Name	Jepil Jeong	Signature
Company	Koolsign Co., Ltd	后行之三
Department	-	
Position	C.E.O	
Location	Seoul, Korea	

Test laboratory		Date : 2024.02.16
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	4
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	,