OCPP 1.6 Full Certificate



Certificate holder: Koolsign Co., Ltd.

Certificate number: OCA.0016.0760.CS

Product type: Charging Station

Product designation: KCD100P-C27L5G

OCPP Software version: v1.1.0

Hardware feature set as stated below

Certification date: May 14, 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 are also covered by this certification.

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 14, 2024	KTC2024-00354_Test report

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: KTC2024-00354 Vendor name: Koolsign Co., Ltd			
Test execution location: Gyeonggi-do Korea Test Report Reference: KTC2024-00354			
Test Report Reference: KTC2024-00354	Gyeonggi-do Korea		
	Gyeonggi-do Korea		
Vandanassa Vandalas Ca. IAI	KTC2024-00354		
vendor name: Koolsign Co., Ltd	Koolsign Co., Ltd		
Device Under Test: Charging Station			
Communication: JSON			
OCPP Software version: v1.1.0			
Product designation: KCD100P-C27L5G			
Test Result Summary for the certified functionalities			
Functionalities OCPP 1.6 Description			
Certification			
Test Results			
Core Pass Basic Charging Station function	nality		
for booting, authorization (inc	l. cache		
if available), configuration,			
transactions, remote control.			
Optional features			
Firmware Management Pass Support for (remote) firmware	update		
management and diagnostic lo	g file		
download.			
Smart Charging Pass Support for Smart Charging (a	-		
types, including stacking), to o	ontrol		
types, including stacking), to d			
charging.			
charging.	nnector		
charging. Reservation Pass Support for reservation of a co	nnector		
charging.	nnector		
charging. Reservation Pass Support for reservation of a co	nnector		
Reservation Pass Support for reservation of a coof a Charging Station. Local Authorization List Management Pass Features to manage a local list			
Reservation Pass Support for reservation of a coof a Charging Station.	in the		

Test Report OCPP 1.6 Certification

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Pass

Remote Trigger

Station.

users.

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



Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	30 s	00:00:06	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:	30 s	00:00:05	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	Koolsign Co., Ltd
DUT / SUT	Charge Point
Communication	JSON
Туре	KCD100P-C27L5G
OCPP Software version	v1.1.0
OCTT version	OCTT 1.6 v1.4.4

Hardware feature set			
Feature	Configuration		
Socket(s) / connector(s)	Multiple		
Fixed cable	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	



OCPP Charging Station	Configuration
Configuration key	Value
AllowOfflineTxForUnknownId	FALSE
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	3
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	Unknown
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	10
HeartbeatInterval	30
LightIntensity	80
Local Authorize Offline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	0
MessageTimeout	-
	Energy.Active.Import.Register,Curr
MeterValuesAlignedData	ent.Export,Temperature
MeterValuesAlignedDataMaxLength	5
<u> </u>	Energy.Active.Import.Register,Tem
Meter Values Sampled Data	perature
Meter Values Sampled Data Max Length	10
MeterValueSampleInterval	10
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	3
Stop Transaction Max Meter Values	-
StopTransactionOnEVSideDisconnect	TRUE
Stop Transaction On Invalid Id	TRUE
StopTxnAlignedData	Sample.Periodic
StopTxnAlignedDataMaxLength	5
·	Energy.Active.Import.Register,Curr
StopTxnSampledData	ent.Export,Temperature
StopTxnSampledDataMaxLength	5
	Core,LocalAuthListManagement,Re
	servation,RemoteTrigger,SmartCha
SupportedFeatureProfiles	rging
SupportedFeatureProfilesMaxLength	0
TransactionMessageAttempts	3
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	30
Local Auth List Enabled	FALSE
LocalAuthListMaxLength	10
SendLocalListMaxLength	10
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	3
ChargingScheduleAllowedChargingRateUnit	Power
ChargingScheduleMaxPeriods	0
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	5
SupportedFileTransferProtocols	HTTP,HTTPS,FTP,SFTP

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Statement of Approval

Vendor		Date: 2024-05-14
Name	Inseok Seo	Signature
Company	Koolsign Co., Ltd	0
Department	Software Development	\mathcal{L}_{l}
Position	Principal Research engineer	$\int u dx$
Location	Seoul, Korea	

Test laboratory		Date: 2024-05-14
Name	Sol Cho	Signature
Company	Korea Testing Certification institute	010 51
Department	EV Charging & Power Transfer Center	La Wall
Position	Research engineer	10/0/0
Location	Gyeonggi-do, Korea	/