OCPP 1.6 Full Certificate



Certificate holder: SK ELECTLINK. Co., LTD.

Certificate number: OCA.0016.0541.CS

Product type: Charging Station

Product designation: SKEL-2304-40501

OCPP Software version: 1.0.0

Hardware feature set as stated below

Certification date: October 17, 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 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	Korea Smart Grid Association, October 17, 2023	(KSGA)SK Electlink_Test Report template_SKEL-2304- 40501_231017

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

Functionalities

Test Result Summary

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OCDD1 6TFCT 100 2022			
Test Report Reference: KSGA-OCPP1.6TEST-190-2023			
Vendor name: SK Electlink Co., Ltd			
Device Under Test: Charging Station			
Communication: JSON			
OCPP Software version: 1.0.0			
Product designation: SKEL-2304-40501			
0			

Test Result Summary for the certified functionalities

Certification

OCPP 1.6 Description

	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	Pass	Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation	Pass	Support for reservation of a connector of a Charging Station.
Local Authorization List Managemen	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

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Station.

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:	60s	00:00:27	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:	10s	00:00:04	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10s	00:00:01	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	SK Electlink Co., Ltd
DUT / SUT	Charge Point
Communication	JSON
Туре	SKEL-2304-40501
OCPP Software version	1.0.0
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	



OCPP Charging Station	Configuration	
Configuration key	Value	
AllowOfflineTxForUnknownId	FALSE	
AuthorizationCacheEnabled	TRUE	
AuthorizeRemoteTxRequests	TRUE	
BlinkRepeat	60	
ClockAlignedDataInterval	60	
ConnectionTimeOut	60	
ConnectorPhaseRotation	-	
ConnectorPhaseRotationMaxLength	_	
GetConfigurationMaxKeys	20	
HeartbeatInterval	60	
LightIntensity	60	
LocalAuthorizeOffline	TRUE	
LocalPreAuthorize	FALSE	
MaxEnergyOnInvalidId	60	
MessageTimeout	- 00	
	-	
MeterValuesAlignedData	- 20	
MeterValuesAlignedDataMaxLength	20	
MeterValuesSampledData	- 20	
MeterValuesSampledDataMaxLength	20	
MeterValueSampleInterval	60	
MinimumStatusDuration	60	
NumberOfConnectors	1	
ResetRetries	0	
StopTransactionMaxMeterValues	150	
StopTransactionOnEVSideDisconnect	TRUE	
StopTransactionOnInvalidId	FALSE	
StopTxnAlignedData	-	
StopTxnAlignedDataMaxLength	20	
StopTxnSampledData	-	
StopTxnSampledDataMaxLength	20	
	Core,FirmwareManagement,LocalA	
SupportedFeatureProfiles	uthListManagement,Reservation,S	
	martCharging,RemoteTrigger	
SupportedFeatureProfilesMaxLength	-	
TransactionMessageAttempts	0	
TransactionMessageRetryInterval	60	
UnlockConnectorOnEVSideDisconnect	FALSE	
WebSocketPingInterval	60	
LocalAuthListEnabled	FALSE	
LocalAuthListMaxLength	60	
SendLocalListMaxLength	60	
ReserveConnectorZeroSupported	TRUE	
ChargeProfileMaxStackLevel	60	
ChargingScheduleAllowedChargingRateUnit	Ampere, Watt	
ChargingScheduleMaxPeriods	60	
ConnectorSwitch3to1PhaseSupported	FALSE	
MaxChargingProfilesInstalled	60	
SupportedFileTransferProtocols	ftp	
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Statement of Approval

Vendor		Date : 2023.10.17
Name	Dongil Kwon	Signature
Company	SK Electlink Co., Ltd	
Department	EV. Charger Development Manager	
Position	Professional Manager	[In]
Location	Seoul, Korea	

Test laboratory		Date : 2023.10.17
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	la.
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	