# OCPP 1.6 Subset Certificate



Certificate holder: SK ELECTLINK. CO., LTD.

Certificate number: OCA.0016.0461.CS

Product type: Charging Station

Product designation: SKEL-2304-40501

OCPP Software version: 1.0.0

Hardware feature set as stated below

Certification date: June 30, 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, June 30, 2023	(KSGA)SK ELECTLINK_Test Report template_SKEL-2304-32001_230630

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:

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## **Abstract of test report**

#### Test Result Summary

Test laboratory:	Korea Smart Grid Association		
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-117-2023		
Vendor name:	SK ELECTLINK. CO., LTD.		
Device Under Test:	Charging Station		
Communication:	JSON		
OCPP Software version:	1.0.0		
Test Result Summary	for the ce	ertified 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	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 Management	Pass	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:	60s	00:00:26	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	00:00:00	The response time for the RemoteStartTransaction message.

### Test Configuration

Vendor	SK ELECTLINK. CO., LTD.
DUT / SUT	Charging Station
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)	Multiple		
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		

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Configuration key	Value
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	60
ClockAlignedDataInterval	0
ConnectionTimeOut	30
Connector Phase Rotation	-
Connector Phase Rotation Max Length	-
GetConfiguration Max Keys	20
HeartbeatInterval	60
LightIntensity	60
Local Authorize Offline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	60
MessageTimeout	-
Meter Values Aligned Data	_
MeterValuesAlignedDataMaxLength	20
MeterValuesSampledData	-
Meter Values Sampled Data Max Length	20
Meter ValueSampleInterval	0
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	0
StopTransactionMaxMeterValues	150
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	20
StopTxnSampledData	-
StopTxnSampledDataMaxLength	20
SupportedFeatureProfiles	Core, Local Auth List Management
Supported Feature Profiles Max Length	-
Transaction Message Attempts	0
Transaction Message Retry Interval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	60
Local Auth List Enabled	TRUE
Local Auth List Max Length	60
SendLocalListMaxLength	60
ReserveConnectorZeroSupported	-
Charge Profile Max Stack Level	-
ChargingScheduleAllowedChargingRateUnit	_
Charging Schedule Max Periods	
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
	-
Supported File Transfer Protocols	-



#### Statement of Approval

Vendor		Date: 2023.06.30
Name	Dongil Kwon	Signature
Company	SK ELECTLINK. CO., LTD.	
Department	EV. Charger Development Manager	[n]
Position Professional Manager		[In]
Location	Seoul, Korea	

Test laboratory			Date: 2023.06.30
Name	Philip YANG		Signature
Company	Korea Smart Grid Association		la
Department	Quality Certification Center		
Position	Chief Researcher		
Location	Seoul, Korea		/