OCPP 1.6 Full Certificate



Certificate holder: SK Electlink Co., Ltd

Certificate number: OCA.0016.0815.CS

Product type: Charging Station

Product designation: SKEL-2404-61002

OCPP Software version: 1.0.0

Hardware feature set as stated below

Certification date: June 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 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,	(KSGA)SK Electlink_Test
specification referenced by the test report	June 24, 2024	Report_SKEL-2404-61002_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	
Location:	Seoul, Korea	
Test execution location:	SK Electlink Co., Ltd (Seongnam, Korea)	
Test Report Reference:	KSGA-OCPP1.6TEST-079-2024	
Vendor name:	SK Electlink Co., Ltd	
Device Under Test:	Charging Station	
Communication:	JSON	
OCPP Software version:	1.0.0	
Product designation:	SKEL-2404-61002	

Test Result Summary for the certified functionalities				
Functionalities	OCPP 1.6 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	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 Manageme	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.		

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Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60s	00:00:16	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:	60s	00:00:05	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	60s	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-2404-61002		
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	Yes	
timestamps.	165	



OCPP Charging Station Configuration			
Configuration key	Value		
AllowOfflineTxForUnknownId	FALSE		
AuthorizationCacheEnabled	FALSE		
AuthorizeRemoteTxRequests	TRUE		
BlinkRepeat	0		
ClockAlignedDataInterval	0		
ConnectionTimeOut	60		
ConnectorPhaseRotation	-		
ConnectorPhaseRotationMaxLength	_		
GetConfigurationMaxKeys	20		
HeartbeatInterval	60		
LightIntensity	0		
LocalAuthorizeOffline			
LocalPreAuthorize	TRUE		
	FALSE		
MaxEnergyOnInvalidId	100		
MessageTimeout	-		
Meter Values Aligned Data	Energy.Active.Import.Register,Volta		
	ge,Current.Import,SoC		
Meter Values Aligned Data Max Length	10		
Meter Values Sampled Data	Energy.Active.Import.Register,Volta		
·	ge,Current.Import,SoC		
Meter Values Sampled Data Max Length	10		
MeterValueSampleInterval	0		
MinimumStatusDuration	0		
NumberOfConnectors	2		
ResetRetries	0		
StopTransactionMaxMeterValues			
StopTransactionOnEVSideDisconnect	TRUE		
Stop Transaction On Invalid Id	TRUE		
StopTxnAlignedData	Current.Export,SoC		
StopTxnAlignedDataMaxLength	10		
StopTxnSampledData	Current.Export,SoC		
StopTxnSampledDataMaxLength	10		
	Core, Firmware Management, Local A		
SupportedFeatureProfiles	uthListManagement,Reservation,Re		
	moteTrigger,SmartCharging		
SupportedFeatureProfilesMaxLength	6		
TransactionMessageAttempts	0		
TransactionMessageRetryInterval	0		
UnlockConnectorOnEVSideDisconnect	FALSE		
WebSocketPingInterval	0		
LocalAuthListEnabled	TRUE		
Local AuthList Max Length	60		
SendLocalListMaxLength	60		
ReserveConnectorZeroSupported	TRUE		
ChargeProfileMaxStackLevel	60		
ChargingScheduleAllowedChargingRateUnit	Ampère		
ChargingScheduleMaxPeriods	60		
ConnectorSwitch3to1PhaseSupported	FALSE		
MaxChargingProfilesInstalled	60		
SupportedFileTransferProtocols	http, https, ftp, ftps		

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Statement of Approval

Vendor		Date : 2024.06.24	
Name	Junhyuk Hwang	Signature	
Company	SK Electlink Co., Ltd		
Department	EV. Charger Development Manager	황준	
Position	Professional Manager	혁인	
Location	Seoul, Korea		

Test laboratory		Date: 2024.06.24
Name	Philip YANG	Signature
Company Korea Smart Grid Association		6
Department Quality Certification Center		
Position Chief Researcher		
Location	Seoul, Korea	,