# OCPP 1.6 Full Certificate



Certificate holder: COSTEL Co., Ltd

Certificate number: OCA.0016.0242.CS

Product type: Charging Station

Product designation: CEC-0530BR

OCPP Software version: V1.0.1

Hardware feature set as stated below

Certification date: December 14, 2022

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 Smart Grid Association, December 14, 2022	KSGA_20221214_Test Report_COSTEL

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 R	Test Report OCPP 1.6 Certification				
Test laboratory:	Korea Smart Grid Association				
Location:	Seoul , Korea				
Test Report Reference:	KSGA-OCPP1.6TEST-123-2022				
Vendor name:	COSTEL Co.,Ltd				
Device Under Test:	Charging Station				
Communication:	Communication: JSON				
OCPP Software version:	V1.0.1				

Test Result Summary for the certified 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	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 Charging Station. This can be used for resending messages or for getting the latest information from the Charging Station.



### Performance Measurement Results

Performance Measurement Results				
Name	PICS value	Measured value	Description	
OCPP triggered function timeout:	60s	00:00:19	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	00:00:04	The response time for when waiting for an OCPP response message.	
Response time RemoteStartTransaction:	30s	00:00:02	The response time for the RemoteStartTransaction message.	

### Test Configuration

## Test Configuration

Vendor	COSTEL Co.,Ltd
DUT / SUT	Charging Station
Communication	JSON
Туре	CEC-0530BR
OCPP Software version	V1.0.1
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
Allow Offline TxForUnknownId         FALSE           AuthorizationCacheEnabled         -           AuthorizePemote TxRequests         FALSE           BlinkRepeat         -           ClockAlignedDataInterval         900           ConnectionTimeOut         90           ConnectorPhaseRotation         NotApplicable           ConnectorPhaseRotationMaxLength         -           GetConfigurationMaxKeys         5           Heartbeathrerval         20           LightIntensity         -           LocalPreAuthorize         FALSE           LocalPreAuthorize         FALSE           MaxEnergyOninvalidid         -           MessageTimeout         -           MessageTimeout         -           MeterValuesAlignedData         Energy. Active.Import. Register. Soc.           MeterValuesSampledData         Contive.Import. Power. Degister. Soc.           MeterValuesSampledData         Voltage, Current. Import. Power. Active. Import. Power. Offered           MeterValuesSampledDataMaxLength         6           MeterValueSampledDataMaxLength         5           MeterValueSampledDataMaxLength         1           StopTransactionOnEVSideDisconnect         TRUE           StopTransactionOnEVSideDisconnect         TRUE </th
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ReserveConnectorZeroSupported FALSE
ChargeProfileMaxStackLevel 3
ChargingScheduleAllowedChargingRateUnit Ampère
ChargingScheduleMaxPeriods 5
ConnectorSwitch3to1PhaseSupported -
MaxChargingProfilesInstalled 3



### Statement of Approval

Vendor		Date: 2022.12.14
Name	Sae rom, Kim	Signature
Company	COSTEL Co.,Ltd	/
Department	R&D Center	
Position	Engineer	/
Location	Gyeonggi, Korea	]

Test laboratory		<b>Date</b> : 2022.12.14
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	اما
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	/