# OCPP 1.6 Full Certificate



Certificate holder: COSTEL Co., Ltd

Certificate number: OCA.0016.0383.CS

Product type: Charging Station

Product designation: CEC-2303HR1

OCPP Software version: V1.0.0

Hardware feature set as stated below

Certification date: July 3, 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.

1	Applied tests	Performed by / on	Document evidence
	Conformance testing according to the test specification referenced by the test report	Korea Smart Grid Association, July 3, 2023	(KSGA)Costel_Test Report template_CEC-2303HR1_230703

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

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Test laboratory: Korea Smart Grid Association					
Location:	Seoul , Korea				
Test Report Reference:	KSGA-OCPP1.6TEST-086-2023				
Vendor name:	COSTEL Co.,Ltd				
Device Under Test:	Charging Stat	ion			
Communication:	JSON				
OCPP Software version:	V1.0.0				
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	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			

**Test Report OCPP 1.6 Certification** 

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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	00:00:09	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	00:00:07	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	30s	00:00:00	The response time for the RemoteStartTransaction message.

### **Test Configuration**

Vendor	COSTEL Co.,Ltd
DUT / SUT	Charging Station
Communication	JSON
Туре	CEC-2303HR1
OCPP Software version	V1.0.0
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		
<>	<>		



OCPP Charging Station	Configuration
Configuration key	Value
Allow Offline TxFor UnknownId	FALSE
AuthorizationCacheEnabled	-
AuthorizeRemoteTxRequests	FALSE
BlinkRepeat	-
ClockAlignedDataInterval	900
ConnectionTimeOut	90
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	5
HeartbeatInterval	20
LightIntensity	-
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	_
MeterValuesAlignedData	Energy, Active, Import, Register
MeterValuesAlignedDataMaxLength	Energy, Active, import negister
MeterValuesSampledData	Energy. Active. Import. Register
MeterValuesSampledDataMaxLength	Energy. Active. Import. negister
Meter ValueSampleInterval	15
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	1
	The state of the s
StopTransactionMaxMeterValues	1
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Energy. Active. Import. Register
StopTxnAlignedDataMaxLength	1
StopTxnSampledData	Energy. Active. Import. Register, SoC
StopTxnSampledDataMaxLength	1
	Core,FirmwareManagement,LocalA
SupportedFeatureProfiles	uthListManagement,Reservation,S
	martCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	10
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	45
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	10
SendLocalListMaxLength	10
ReserveConnectorZeroSupported	FALSE
ChargeProfileMaxStackLevel	3
ChargingScheduleAllowedChargingRateUnit	Ampere
ChargingScheduleMaxPeriods	5
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	3
SupportedFileTransferProtocols	ftp
Supported he transfer folloods	I/P

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## Statement of Approval

Vendor		Date: 2023.07.03	
Name	Chung-Seon Hong	Signature	
Company	COSTEL Co.,Ltd		
Department	R&D Center	1100	
Position	Principal Engineer	MCD.	
Location	Gyeonggi, Korea		

Test laboratory		Date: 2023.07.03
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	1.4
Department	Quality Certification Center	9/
Position	Chief Researcher	
Location	Seoul, Korea	