# OCPP 1.6 Subset Certificate



Certificate holder: COSTEL Co., Ltd

Certificate number: OCA.0016.0142.CS

Product type: Charging Station

Product designation: DC / CEC-2022BC

OCPP Software version: V1.0.0

Hardware feature set as stated below

Certification date: May 11, 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 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, May 11, 2022	KSGA_20220512_Test Report_Costel_CEC-2022BC

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 Report Reference:	KSGA-OCPP1.6TEST-072-2022		
Vendor name:	COSTEL Co.,L	td	
Device Under Test:	Charging Stati	on	
Communication:	JSON		
OCPP Software version:	V1.0.0		
Test Result Summary	for the ce	rtified functionalities	
Functionalities	OCPP 1.6 Certification Test Results	Description	
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 Managemer	N/A	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.



#### Performance Measurement Results

Performance Measurement Results					
Name	PICS value	Measured value	Description		
OCPP triggered function timeout:	60s	00:00:40	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	00:00:02	The response time for when waiting for an OCPP response message.		
Response time RemoteStartTransaction:	30s	00:00:01	The response time for the RemoteStartTransaction message.		

## Test Configuration

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Vendor	COSTEL Co.,Ltd
DUT / SUT	Charing Station
Communication	JSON
Туре	CEC-2022BC
OCPP Software version	V1.0.0
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		



Configuration key	Value
AllowOfflineTxForUnknownId	value
AuthorizationCacheEnabled	-
Authorization Cache Enabled Authorize Remote TxRequests	- FALSE
BlinkRepeat	FALSE
ClockAlignedDataInterval	0
ConnectionTimeOut	90
ConnectorPhaseRotation	NotApplicable
Connector Phase Rotation Max Length	Потаррисавіе
	1
GetConfigurationMaxKeys HeartbeatInterval	20
	20
LightIntensity  LocalAuthorizeOffline	EALCE
	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	For a series A strict leaves and Dominton Co. C.V.
	Energy.Active.Import.Register,SoC,V
M . V . AP . ID .	Itage,Current.Import,Power.Active.In
MeterValuesAlignedData	port
MeterValues Aligned Data Max Length	6
	Energy.Active.Import.Register,SoC,V
	Itage,Power.Active.Import,Power.Of
MeterValuesSampledData	ered
MeterValuesSampledDataMaxLength	6
MeterValueSampleInterval	0
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	1
StopTransactionMaxMeterValues	1
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	<u>-</u> 1
StopTxnAlignedDataMaxLength	·
StopTxnSampledData	Energy.Active.Import.Register,SoC
StopTxnSampledDataMaxLength	1
	Core, Firmware Management, Local Au
C	hListManagement,Reservation,Smar
SupportedFeatureProfiles	Charging,RemoteTrigger
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	3
TransactionMessageRetryInterval	30
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	0
LocalAuthListEnabled	
LocalAuthListMaxLength	
Send Local List Max Length	
Reserve Connector Zero Supported	
ChargeProfileMaxStackLevel	
	+
ChargingScheduleAllowedChargingRateUnit	+
Charging Schedule Max Periods	
	•
Connector Switch 3 to 1 Phase Supported  Max Charging Profiles Installed	

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### Statement of Approval

Vendor		<b>Date</b> : 2022.05.12
Name	Sae rom, Kim	Signature
Company	COSTEL Co.,Ltd	/
Department	R&D Center	
Position	Engineer	
Location	Gyeonggi, Korea	, i

Test laboratory		<b>Date</b> : 2022.05.12
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	4
Department	Quality Certification Center	
Position	Senior Researcher	4.
Location	Seoul, Korea	<b>'</b>