OCPP 1.6 Full Certificate



Certificate holder: COSTEL Co., Ltd

Certificate number: OCA.0016.0526.CS

Product type: Charging Station

Product designation: CEC-2023BC

OCPP Software version: V1.0.2

Hardware feature set as stated below

Certification date: October 12, 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.

Applied tests	Performed by / on	Document evidence
Conformance testing according to the test specification referenced by the test report	Korea Smart Grid Association, October 12, 2023	(KSGA)Costel_Test Report template_ChargingStation_CEC- 2023BC_231012

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 laboratory:	Korea Smar	t Grid Association	
Location:	Seoul , Korea		
Test execution location:	COSTEL Co.,Ltd(Seongnam, Korea)		
Test Report Reference:	KSGA-OCPP1.6TEST-182-2023		
Vendor name:	COSTEL Co.,Ltd		
Device Under Test:	Charging Sta	tion	
Communication:	JSON		
OCPP Software version:	V1.0.2		
Product designation:	CEC-2023BC		
Test Result Summary	for the ce	rtified 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 Management	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.	

Test Report OCPP 1.6 Certification

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Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60s	00:00:33	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	00:00:05	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	30s	00:00:04	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	COSTEL Co.,Ltd
DUT / SUT	Charging Station
Communication	JSON
Туре	CEC-2023BC
OCPP Software version	V1.0.2
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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Castiannatian Iran	Value
Configuration key	Value
AllowOfflineTxForUnknownId	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	6
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	6
MeterValueSampleInterval	15
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	1
	1
StopTransactionMaxMeterValues	TRUE
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	1
StopTxnSampledData	Energy.Active.Import.Register,So
StopTxnSampledDataMaxLength	1
	Core,FirmwareManagement,Loc IAuthListManagement,Reservat
Commente dEnergy Denfit	on,SmartCharging,RemoteTrigge
SupportedFeatureProfiles	
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	10
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	45
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	10
SendLocalListMaxLength	10
ReserveConnectorZeroSupported	FALSE
	3
ChargeProfileMaxStackLevel	_
ChargingScheduleAllowedChargingRateUnit	
ChargingScheduleMaxPeriods	5
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	3
SupportedFileTransferProtocols	ftp

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Statement of Approval

Vendor			Date: 2023.10.12
Name	HyunUk, Park		Signature
Company	COSTEL Co.,Ltd		_
Department	R&D Center	Γ	M
Position	Engineer	Γ	//.
Location	Gyeonggi, Korea		

Test laboratory	/	Date : 2023.10.12
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	ام
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	/