OCPP 1.6 Full Certificate



Certificate holder: COSTEL Co., Ltd

Certificate number: OCA.0016.0735.CS

Product type: Charging Station

Product designation: CEC-2020BC

OCPP Software version: V1.0.2

Hardware feature set as stated below

Certification date: May 2, 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 specification referenced by the test report	Korea Testing Certification institute, May 2, 2024	KTC2024-00266_Test report_v240502_signature

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 Testing Certification institute				
Location:	Gyeonggi-do Korea			
Test execution location: Gyeonggi-do Korea				
Test Report Reference: KTC2024-00266				
Vendor name:	Costel Co., Ltd			
Device Under Test: Charging Station				
Communication: JSON				
OCPP Software version: V1.0.2				
Product designation:	CEC-2020BC			

Test Result Summary for the certified functionalities

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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	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.

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Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60 s	00:00:37	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:	30 s	00:00:05	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	30 s	00:00:04	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Costel Co., Ltd
DUT / SUT	Charge Point
Communication	JSON
Туре	CEC-2020BC
OCPP Software version	V1.0.2
OCTT version	OCTT 1.6 v1.4.4

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Multiple			
Fixed cable	Yes			
Communication technology	Ethernet			
RFID readers	single			

Non-OCPP Charge Point Configuration				
Configuration key Value				
SecurityProfile 3				
CpoName				

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

Device supports sending milliseconds in timestamps.

Yes



OCPP Charging Station	
Configuration key	Value
AllowOfflineTxForUnknownId	FALSE
Authorization Cache Enabled	-
AuthorizeRemoteTxRequests	FALSE
BlinkRepeat	-
ClockAlignedDataInterval	900
ConnectionTimeOut	90
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	5
HeartbeatInterval	20
LightIntensity	-
Local Authorize Offline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
Meter Values Aligned Data	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	-
	Energy.Active.Import.Register,SoC
	Voltage,Current.Import,Power.Act
MeterValuesSampledData	ve.Import,Power.Offered
MeterValuesSampledDataMaxLength	-
MeterValueSampleInterval	5
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	1
StopTransactionMaxMeterValues	_
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Energy.Active.Import.Register
	Energy.Active.import.negister
StopTxnAlignedDataMaxLength	Frank Active Import Begister Sec
StopTxnSampledData	Energy.Active.Import.Register,SoC
StopTxnSampledDataMaxLength	Con Simon Management Local
	Core,FirmwareManagement,Local
	AuthListManagement,Reservation
SupportedFeatureProfiles	SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	10
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	45
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	10
SendLocalListMaxLength	10
ReserveConnectorZeroSupported	FALSE
neserveconnectorzerosupporteu	FALSE
ChargeProfileMaxStackLevel	3
ChargingScheduleAllowedChargingRateUnit	Current
ChargingScheduleMaxPeriods	5
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	3
SupportedFileTransferProtocols	-
MaxChargingProfilesInstalled SupportedFileTransferProtocols	

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Statement of Approval

Vendor		Date: 2024-05-02
Name	Saerom Kim	Signature
Company	Costel Co., Ltd	/
Department	R&D Center	
Position	Engineer	/ V>
Location	Gyeonggi-do, Korea	, .

Test laboratory		Date: 2024-05-02
Name	Sol Cho	Signature
Company	Korea Testing Certification institute	010 51
Department	EV Charging & Power Transfer Center	La William
Position Research engineer		10/0/0
Location	Gyeonggi-do, Korea	