OCPP 1.6 Subset Certificate



Certificate holder: COSTEL Co., Ltd

Certificate number: OCA.0016.0186.CS

Product type: Charging Station

Product designation: AC / CEC-2303HC1

OCPP Software version: V1.0.0

Certification date: September 8, 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, September 8, 2022	KSGA_20220908_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 Report OCPP 1.6 Certification			
Test laboratory:	Korea Smart Grid Association		
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-107-2022		
Vendor name:	COSTEL Co.,Ltd		
Device Under Test:	Charging Station		
Communication: JSON			
OCPP Software version:	V1.0.0		

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	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 Managemen	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.

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Performance Measurement Results

Performance Measurement Results				
Name	PICS value	Measured value	Description	
OCPP triggered function timeout:	10s	00:00:05	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:	10s	00:00:04	The response time for when waiting for an OCPP response message.	
Response time RemoteStartTransaction:	10s	00:00:00	The response time for the RemoteStartTransaction message.	

Test Configuration

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Vendor	COSTEL Co.,Ltd
DUT / SUT	Charging Station
Communication	JSON
Туре	AC / CEC-2303HC1
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
<>		<>

laboratory and for the correct functioning of the CSMS:		
Limit / setting	Value	
Device supports sending milliseconds in timestamps.	Yes	



OCPP Charging Station	Configuration
Configuration key	Yalue
AllowOfflineTxForUnknownId	
AuthorizationCacheEnabled	
AuthorizeRemoteTxRequests	FALSE
BlinkRepeat	0
Clock Aligned DataInterval	0
ConnectionTimeOut	30
ConnectorPhaseBotation	NotApplicable NotApplicable
Connector PhaseRotationMaxLength	0
GetConfigurationMaxKeys	10
HeartbeatInterval	20
	0
LightIntensity	-
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	0
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	1
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	1
MeterValueSampleInterval	20
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	0
StopTransactionMaxMeterValues	1
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	1
StopTxnSampledData	Energy.Active.Import.Register
StopTxnSampledDataMaxLength	1
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	0
TransactionMessageAttempts	0
TransactionMessageRetryInterval	0
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	0
Local Auth List Enabled	
LocalAuthListMaxLength	
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	
ChargeProfileMaxStackLevel	
ChargingScheduleAllowedChargingRateUnit	
ChargingScheduleMaxPeriods	
ConnectorSwitch3to1PhaseSupported	
MaxChargingProfilesInstalled	
SupportedFileTransferProtocols	



Statement of Approval

Vendor		Date: 2022.09.08
Name	Tae Hoon, Kim	Signature
Company	COSTEL Co.,Ltd	,
Department	R&D Center	7/1
Position	Executive Managing Director	
Location	Gyeonggi, Korea	

Test laboratory		Date: 2022.09.08
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	١٨
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	/