OCPP 1.6 Subset Certificate



Certificate holder: MODERNTEC Co., Ltd

Certificate number: OCA.0016.0191.CS

Product type: Charging Station

Product designation: MD-160-2AA

OCPP Software version: 10.1.1

Hardware feature set as stated below

Certification date: September 15, 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 15, 2022	KSGA_20220915_Test Report_MODERNTEC

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



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-111-2022				
Vendor name:	MODERNTEC Co., Ltd			
Device Under Test: Charging Station				
Communication: JSON				
OCPP Software version:	10.1.1			

Test Result Summary for the certified functionalities Functionalities OCPP 1.6 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 Management	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:	30s	00:00:10	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	00:00:02	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

Test Configuration

Vendor	MODERNTEC Co., Ltd
DUT / SUT	Charging Station
Communication	JSON
Туре	MD-160-2AA
OCPP Software version	10.1.1
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	
<>	<>	

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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ConnectorPhaseRotationMaxLength GetConfigurationMaxKeys HeartbeatInterval LightIntensity LocalAuthorizeOffline LocalPreAuthorize MaxEnergyOnInvalidId MessageTimeout MeterValuesAlignedData MeterValuesAlignedData MeterValuesAlignedDataMaxLength MeterValuesSampledDataMaxLength MeterValuesSampledDataMaxLength MeterValuesSampledDataMaxLength MeterValuesSampledDataMaxLength MeterValuesSampledDataMaxLength MeterValuesSampledDataMaxLength MeterValuesSampledDataMaxLength MeterValuesSampledDataMaxLength MoterValuesSampledDataMaxLength MoterValuesSampledDataMaxLength MoterValuesSampledDataMaxLength MoterValuesSampledDataMaxLength MoterValuesSampledDataMaxLength StopTransactionOnloreVSideDisconnect StopTransactionOnloreVSideDisconnect StopTransactionOnloreVSideDisconnect StopTransalignedDataMaxLength StopTxnAlignedDataMaxLength StopTxnSampledDataMaxLength StopTxnSampledDataMaxLength SupportedFeatureProfiles SupportedFeatureProfilesMaxLength TransactionMessageAttempts TransactionMessageAttempts TransactionMessageRetryInterval UnlockConnectorOnEVSideDisconnect WebSocketPingInterval LocalAuthListEnabled LocalAuthListEnabled LocalAuthListMaxLength SeerveConnectorZeroSupported ChargeProfileMaxStackLevel ChargingScheduleAllowedChargingRateUnit ChargingScheduleMaxPeriods	ation
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ChargingScheduleMaxPeriods	-
ConnectorQuitek2te1DhassQuisestad	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	

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Statement of Approval

Vendor		Date: 2022.09.15
Name	Seongdoo Kim	Signature
Company	MODERNTEC Co., Ltd	
Department	Representative Director	Seongdoo Kim
Position	Chief Executive Officer	Jeorgaco Kara
Location	Seoul, Korea	

Test laboratory		Date : 2022.09.15
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	اما
Department Quality Certification Center		
Position	Senior Researcher	
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