

OCPP 1.6 Full Certificate



Certificate holder: Starcharge Energy Pte. Ltd.
Certificate number: OCA.0016.0661.CS
Product type: Charging Station
Product designation: Artemis
OCPP Software version: 1.0.7b1.0.8
Hardware feature set as stated below
Certification date: January 22, 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
<i>Conformance testing according to the test specification referenced by the test report</i>	<i>DNV Singapore Pte. Ltd., January 22, 2024</i>	<i>DNV_OCPP 1.6 Test Report_CP_Artemis</i>

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

A blue ink signature of Onoph Caron, Chairman of the Open Charge Alliance.

Abstract of test report

Test Result Summary

Test Report OCPP 1.6 Certification		
Test laboratory:	DNV Singapore Pte. Ltd.	
Location:	Singapore	
Test execution location:	China	
Test Report Reference:	DNV_OCPP1.6_TEST_CP_Artemis	
Vendor name:	Starcharge Energy Pte. Ltd.	
Device Under Test:	Charging Station	
Communication:	JSON	
OCPP Software version:	1.0.7b1.0.8	
Product designation:	Artemis	
Test Result Summary for the certified 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	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.

Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60 seconds	0:00:40 seconds	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:	10 seconds	0:00:03 seconds	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 seconds	0:00:00 second	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Starcharge Energy Pte. Ltd.
DUT / SUT	Charge Point
Communication	JSON
Type	Artemis
OCPP Software version	1.0.7b1.0.8
OCTT version	OCTT 1.6 v 1.4.3

Hardware feature set

Feature	Configuration
Socket(s) / connector(s)	Single
Fixed cable	Yes
Communication technology	WiFi / ethernet / mobile network
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

OCPP Charging Station Configuration	
Configuration key	Value
AllowOfflineTxForUnknownId	FALSE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	Not Applicable
ConnectorPhaseRotationMaxLength	1
GetConfigurationMaxKeys	50
HeartbeatInterval	20
LightIntensity	-
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Register,Voltage,Current.Import,Power.Offered,Power.Active.Import
MeterValuesAlignedDataMaxLength	-
MeterValuesSampledData	Energy.Active.Import.Register,Voltage,Current.Import,Power.Offered,Power.Active.Import,SoC
MeterValuesSampledDataMaxLength	8
MeterValueSampleInterval	0
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	2
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	8
StopTxnSampledData	-
StopTxnSampledDataMaxLength	8
SupportedFeatureProfiles	Core,FirmwareManagement,LocalAuthListManagement,Reservation,SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	5
TransactionMessageRetryInterval	5
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	20
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	4000
SendLocalListMaxLength	400
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	20
ChargingScheduleAllowedChargingRateUnit	Current,Power
ChargingScheduleMaxPeriods	20
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	40
SupportedFileTransferProtocols	ftp

Statement of Approval

Vendor		Date: 2024.01.22
Name	Tony Wu	Signature
Company	Starcharge Energy Pte. Ltd.	
Department	International Charging Product Center	
Position	General Manager	
Location	Singapore	

Test laboratory		Date: 2024.01.22
Name	Sukoco	Signature
Company	DNV Singapore Pte. Ltd.	
Department	Energy Systems	
Position	Senior Consultant	
Location	Singapore	