OCPP 1.6
Subset Certificate

Certificate holder: Gnrgy LTD

Certificate number: OCA.0016.0587.CS

Product type: Charging Station

Product designation: GT
OCPP Software version: 7.23.06
Hardware feature set as stated below

Certification date: December 11, 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 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	DNV Netherlands B.V., December 11, 2023	*DNV 20231205_Test Report_Gnrgy_v1.5*

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

<table>
<tr><td colspan="2" align="center">**Test Report OCPP 1.6 Certification**</td></tr>
<tr><td>**Test laboratory:**</td><td>**DNV**</td></tr>
<tr><td>**Location:**</td><td>Arnhem, The Netherlands</td></tr>
<tr><td>**Test execution location:**</td><td>Arnhem, The Netherlands</td></tr>
<tr><td>**Test Report Reference:**</td><td>DNV 20231205_Test Report_Gnrgy_v1.5</td></tr>
<tr><td>**Vendor name:**</td><td>**GNRGY LTD**</td></tr>
<tr><td>**Device Under Test:**</td><td>Charging Station</td></tr>
<tr><td>**Communication:**</td><td>JSON</td></tr>
<tr><td>**OCPP Software version:**</td><td>7.23.06</td></tr>
<tr><td>**Product designation:**</td><td>GT</td></tr>
</table>

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	N/A	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	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	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:	30 Sec	4 Sec	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:	35 Sec	31 Sec	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	5 Sec	1 Sec	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	GNRGY LTD
DUT / SUT	Charge Point
Communication	JSON
Type	GT
OCPP Software version	7.23.06
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set	
Feature	**Configuration**
Socket(s) / connector(s)	Single
Fixed cable	Yes
Communication technology	mobile network
RFID readers	one per EVSE

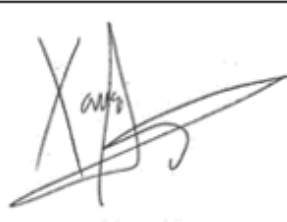| Non-OCPP Charge Point Configuration	
Configuration key	**Value**
<>	<>

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.	no

OCPP Charging Station Configuration

Configuration key	Value
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	0
ClockAlignedDataInterval	30
ConnectionTimeOut	60
ConnectorPhaseRotation	Unknown
ConnectorPhaseRotationMaxLength	2
GetConfigurationMaxKeys	5
HeartbeatInterval	3600
LightIntensity	100
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	0
MessageTimeout	<optional>
MeterValuesAlignedData	Current.Import,Current.Offered,Energy.Active.Import.Register,Frequency,Power.Active.Import,Power.Factor,Power.Offered,Temperature,Voltage
MeterValuesAlignedDataMaxLength	9
MeterValuesSampledData	Current.Import,Current.Offered,Energy.Active.Import.Register,Frequency,Power.Active.Import,Power.Factor,Power.Offered,Temperature,Voltage
MeterValuesSampledDataMaxLength	9
MeterValueSampleInterval	30
MinimumStatusDuration	1
NumberOfConnectors	1
ResetRetries	1
StopTransactionMaxMeterValues	<optional>
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	0
StopTxnAlignedDataMaxLength	0
StopTxnSampledData	0
StopTxnSampledDataMaxLength	1
SupportedFeatureProfiles	Core,RemoteTrigger,SmartCharging
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	3
TransactionMessageRetryInterval	5
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	300
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	25
SendLocalListMaxLength	1
ReserveConnectorZeroSupported	FALSE
ChargeProfileMaxStackLevel	10
ChargingScheduleAllowedChargingRateUnit	Current
ChargingScheduleMaxPeriods	15
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	7
SupportedFileTransferProtocols	<optional>

Statement of Approval

Vendor		Date: 2023-12-11
Name	XAVIER AGUIRRE TORRES	Signature
Company	GNRGY Smart grid Ltd.	
Department	R&D office GNRGY Spain	
Position	Software embedded engineer	
Location	Barcelona (SPAIN)	

Test laboratory		Date: 2023-12-11
Name	Casper van der Sluis	Signature
Company	DNV	
Department	Digital System Operations	
Position	Consultant Digital System Operations	
Location	Arnhem	