OCPP 1.6 Subset Certificate



Certificate holder: ULVAC KOREA

Certificate number: OCA.0016.0252.CS

Product type: Charging Station

Product designation: UK-QC50D-DC

OCPP Software version: 1.0.3

Hardware feature set as stated below

Certification date: December 6, 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, December 6, 2022	KSGA_20221206_Test Report ULVACKOREA_UK-QC50D-DC

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:

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Abstract of test report

Test Result Summary

rest Report	OCFF 1.6	Certification	
Test laboratory:	Korea Smart	Grid Association	
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-139-2022		
Vendor name:	ULVAC KOREA		
Device Under Test:	Charging Station		
Communication:	JSON		
OCPP Software version:	1.0.3		
Test Result Summar	y for the ce	rtified 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 Manageme	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.	

Test Report OCPP 1.6 Certification



Performance Measurement Results

Performance Measurement Results			
Name	PICS value	Measured value	Description
OCPP triggered function timeout:	90s	00:01:26	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:	5s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	5s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Test Configuration

Vendor	ULVAC KOREA
DUT / SUT	Charging Station
Communication	JSON
Туре	UK-QC50D-DC
OCPP Software version	1.0.3
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set			
Feature	Configuration		
Socket(s) / connector(s)	Multiple		
Fixed cable	<yes></yes>		
Communication technology	Ethernet		
RFID readers	Single		

Non-OCPP Charge I	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	TRUE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	15
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable NotApplicable
ConnectorPhaseRotationMaxLength	
GetConfigurationMaxKeys	20
HeartbeatInterval	30
LightIntensity	
Local Authorize Offline	- TRUE
Local Pre Authorize	TRUE
MaxEnergyOnInvalidId	-
MessageTimeout	
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	
MeterValueSampleInterval	15
MinimumStatusDuration	-
NumberOfConnectors	2
ResetRetries	3
StopTransactionMaxMeterValues	
StopTransactionOnEVSideDisconnect	FALSE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	
StopTxnSampledData	-
StopTxnSampledDataMaxLength	
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	3
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	60
LocalAuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	-

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Statement of Approval

Vendor		Date: 2022.12.06
Name	Pilhong PARK	Signature
Company	ULVAC KOREA	/
Department	Components Division	6
Position	Senior Engineer	
Location	Pyeongtaek, Korea	

Test laboratory			Date : 2022.12.06
Name	Philip YANG		Signature
Company	Korea Smart Grid Association		<u>ل</u>
Department	Quality Certification Center		
Position	Senior Researcher		
Location	Seoul, Korea		