

OCPP 1.6 Full Certificate



Certificate holder: ULVAC KOREA
Certificate number: OCA.0016.0675.CS
Product type: Charging Station
Product designation: UK-NC7S01-004
OCPP Software version: 1.0.11
Hardware feature set as stated below
Certification date: January 8, 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>Korea Smart Grid Association, January 8, 2024</i>	<i>(KSGA)ULVAC_Test Report_UK-NC7S01-004_v1.5</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:	Korea Smart Grid Association	
Location:	Seoul, Korea	
Test execution location:	KSGA Test Lab	
Test Report Reference:	KSGA-OCPP1.6TEST-001-2024	
Vendor name:	ULVAC KOREA	
Device Under Test:	Charging Station	
Communication:	JSON	
OCPP Software version:	1.0.11	
Product designation:	UK-NC7S01-004	
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:	15s	00:00:04	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	00:00:05	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	ULVAC KOREA
DUT / SUT	Charging Station
Communication	JSON
Type	UK-NC7S01-004
OCPP Software version	1.0.11
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	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	10
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	1
HeartbeatInterval	20
LightIntensity	20
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	1000
MessageTimeout	-
MeterValuesAlignedData	Voltage,Current.Import,Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	20
MeterValuesSampledData	Voltage,Current.Import,Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	20
MeterValueSampleInterval	0
MinimumStatusDuration	10
NumberOfConnectors	1
ResetRetries	3
StopTransactionMaxMeterValues	20
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Voltage,Current.Import,Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	20
StopTxnSampledData	Voltage,Current.Import,Energy.Active.Import.Register
StopTxnSampledDataMaxLength	20
SupportedFeatureProfiles	Core,FirmwareManagement,LocalAuthListManagement,Reservation,SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	3
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	10
LocalAuthListEnabled	TRUE
LocalAuthListMaxLength	100
SendLocalListMaxLength	100
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	10
ChargingScheduleAllowedChargingRateUnit	Ampère
ChargingScheduleMaxPeriods	100
ConnectorSwitch3to1PhaseSupported	TRUE
MaxChargingProfilesInstalled	10
SupportedFileTransferProtocols	ftp

Statement of Approval

Vendor		Date: 2024.01.08
Name	Pilhong PARK	Signature 
Company	ULVAC KOREA	
Department	Components Division	
Position	Senior Engineer	
Location	Pyeongtaek, Korea	

Test laboratory		Date: 2024.01.08
Name	Philip YANG	Signature 
Company	Korea Smart Grid Association	
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	