

OCPP 1.6 Full Certificate



Certificate holder: ECS Industrial Computer Co., Ltd.
Certificate number: OCA.0016.0493.CS
Product type: Charging Station
Product designation: WKT-EC13
OCPP Software version: RC3.1
Hardware feature set as stated below
Certification date: August 25, 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 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., August 25, 2023</i>	<i>DNV_OCPP 1.6 Test Report_CP_ECS</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 Report Reference:	DNV_OCPP1.6_TEST_CP_20230825	
Vendor name:	ECS Industrial Computer Co., Ltd.	
Device Under Test:	Charging Station	
Communication:	JSON	
OCPP Software version:	RC3.1	
Test Result Summary for the certified functionalities		
Functionalities	OCPP 1.6 Certification	Description
Test Results		
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	13 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:	30 seconds	2 seconds	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 seconds	1 seconds	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	ECS Industrial Computer Co., Ltd.
DUT / SUT	Charge Point
Communication	JSON
Type	WKT-EC13
OCPP Software version	RC3.1
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	FALSE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	20
ConnectorPhaseRotation	1.NotApplicable
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	50
HeartbeatInterval	30
LightIntensity	-
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Register, Temperature
MeterValuesAlignedDataMaxLength	-
MeterValuesSampledData	Energy.Active.Import.Register, Temperature
MeterValuesSampledDataMaxLength	-
MeterValueSampleInterval	0
MinimumStatusDuration	
NumberOfConnectors	1
ResetRetries	1
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	-
StopTxnSampledData	Energy.Active.Import.Register
StopTxnSampledDataMaxLength	-
SupportedFeatureProfiles	Core,FirmwareManagement,LocalAuthListManagement,Reservation,SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	5
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	10
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	100
SendLocalListMaxLength	20
ReserveConnectorZeroSupported	FALSE
ChargeProfileMaxStackLevel	10
ChargingScheduleAllowedChargingRateUnit	Current
ChargingScheduleMaxPeriods	8
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	30
SupportedFileTransferProtocols	ftp, ftps

Statement of Approval

Vendor		Date: 2023.08.25
Name	Allen Liu	Signature
Company	ECS Industrial Computer Co., Ltd.	
Department	IoT Product Management Division	
Position	Product Manager	
Location	Taipei City, Taiwan	

Test laboratory		Date: 2023.08.25
Name	Sukoco	Signature
Company	DNV Singapore Pte. Ltd.	
Department	Energy Systems	
Position	Senior Consultant	
Location	Singapore	