OCPP 1.6 Subset Certificate



Certificate holder: A-Pro Co. LTD.

Certificate number: OCA.0016.0441.CS

Product type: Charging Station

Product designation: EVD100K2C

OCPP Software version: 1.0

Hardware feature set as stated below

Certification date: July 18, 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	Korea Smart Grid Association, July 18, 2023	(KSGA)A-PRO_Test Report template_EVD100K2C_230717

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

Test Report	OCPP 1.6	Certification	
Test laboratory:	Korea Smart	Grid Association	
Location:	Seoul , Korea		
Test Report Reference:	KSGA-OCPP1.6TEST-130-2023		
Vendor name:	A-Pro Co. LTI	D.	
Device Under Test:	Charging Stat	ion	
Communication:	JSON		
OCPP Software version:	1,0		
Test Result Summary	for the ce	ertified functionalities	
Functionalities	OCPP 1.6	Description	
	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 Managemen	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.	

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Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	30s	00:00:24	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:	30s	00:00:22	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10s	00:00:03	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	A-Pro Co. LTD.
DUT / SUT	Charging Station
Communication	JSON
Туре	EVD100k2C
OCPP Software version	1,0
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 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 Yes timestamps.			



OCPP Charging Station	Configuration
Configuration key	Value
AllowOfflineTxForUnknownId	-
AuthorizationCacheEnabled	-
AuthorizeRemoteTxRequests	FALSE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	30
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	20
HeartbeatInterval	60
LightIntensity	-
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
MeterValuesAlignedData	Energy, Active, Import, Register
MeterValuesAlignedDataMaxLength	-
MeterValuesSampledData	Energy, Active, Import, Register
MeterValuesSampledDataMaxLength	
MeterValueSampleInterval	0
MinimumStatusDuration	-
NumberOfConnectors	2
ResetRetries	0
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	Energy. Active. Import. Register
StopTxnAlignedDataMaxLength	- Lifergy, Hotive, Import, riegister
StopTxnSampledData	Energy. Active. Import. Register
StopTxnSampledBataMaxLength	
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	_
TransactionMessageAttempts	3
TransactionMessageRetryInterval	3
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	
LocalAuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
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ChargingScheduleMaxPeriods	
	-
ChargingScheduleMaxPeriods	-

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Statement of Approval

Vendor			Date: 2023.07.18
Name	Gibyung Yoon		Signature
Company	A-Pro Co. LTD.		0 0101 1
Department	R&D Center		9 11/16g
Position	Senior Manager		20 110
Location	Gunpo, Gyeonggi-do		

Test laboratory		Date: 2023.07.18
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	la
Department	Quality Certification Center	
Position Chief Researcher		
Location	Seoul, Korea	