OCPP 1.6
Subset Certificate

Certificate holder: PUMPKIN Co., Ltd

Certificate number: OCA.0016.0732.CS

Product type: Charging Station

Product designation: eBAB-240KS-C2B
OCPP Software version: 1.8.01
Hardware feature set as stated below

Certification date: May 24, 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 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 Testing Certification institute,* May 24, 2024	*KTC2024-00230_Test report_v240516*

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

Test Report OCPP 1.6 Certification	
Test laboratory:	**Korea Testing Certification institute**
Location:	Gyeonggi-do Korea
Test execution location:	Gyeonggi-do Korea
Test Report Reference:	KTC2024-00230
Vendor name:	**PUMPKIN**
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	1.8.01
Product designation:	eBAB-240KS-C2B

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	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 Management	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.

Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60 s	00:00:08	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:	10 s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	PUMPKIN
DUT / SUT	Charge Point
Communication	JSON
Type	eBAB-240KS-C2B
OCPP Software version	1.8.01
OCTT version	OCTT 1.6 v1.4.4

Hardware feature set	
Feature	Configuration
Socket(s) / connector(s)	Multiple
Fixed cable	Yes
Communication technology	Ethernet
RFID readers	single

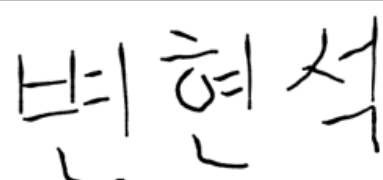| Non-OCPP Charge Point Configuration	
Configuration key	Value
<>	<>

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 timestamps.	Yes

OCPP Charging Station Configuration

Configuration key	Value
AllowOfflineTxForUnknownId	-
AuthorizationCacheEnabled	-
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	10
HeartbeatInterval	30
LightIntensity	-
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Interval
MeterValuesAlignedDataMaxLength	-
MeterValuesSampledData	Voltage,Current.Offered,SoC,Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	-
MeterValueSampleInterval	10
MinimumStatusDuration	-
NumberOfConnectors	1
ResetRetries	3
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Power.Offered,SoC
StopTxnAlignedDataMaxLength	-
StopTxnSampledData	Power.Offered,SoC
StopTxnSampledDataMaxLength	-
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	3
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	-
LocalAuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	-

Statement of Approval

Vendor		Date: 2024-05-24
Name	Byun Hyunsuk	Signature
Company	PUMPKIN	
Department	AI Platform team	
Position	Researcher	
Location	Gyeonggi-do, Korea	

Test laboratory		Date: 2024-04-25
Name	Sol Cho	Signature
Company	Korea Testing Certification institute	
Department	EV Charging & Power Transfer Center	
Position	Research engineer	
Location	Gyeonggi-do, Korea	