OCPP 1.6 Subset Certificate

Certificate holder: PUMPKIN Co., Ltd

Certificate number: OCA.0016.0316.CS

Product type: Charging Station

Product designation: eBAB-200KS
OCPP Software version: PK1.1
Hardware feature set as stated below

Certification date: April 11, 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, April 11, 2023*	*(KSGA)PUMPKIN_Test Report template_eBAB-200KS_230411*

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 Smart Grid Association
Location:	Seoul , Korea
Test Report Reference:	KSGA-OCPP1.6TEST-056-2023
Vendor name:	PUMPKIN Co., Ltd
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	PK1.1

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 Managemer	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:	30s	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	00:00:09	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

Vendor	PUMPKIN Co., Ltd
DUT / SUT	Charging Station
Communication	JSON
Type	eBAB-200KS
OCPP Software version	PK1.1
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set	
Feature	Configuration
Socket(s) / connector(s)	Single
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	10
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	20
HeartbeatInterval	20
LightIntensity	20
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	2000
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Interval
MeterValuesAlignedDataMaxLength	20
MeterValuesSampledData	Current.Import, Current.Offered, Energy.Active.Import.Register, Energy.Active.Import.Register, Energy.Active.Import.Interval, Power.Active.Import, Power.Offered,SoC
MeterValuesSampledDataMaxLength	20
MeterValueSampleInterval	10
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	3
StopTransactionMaxMeterValues	20
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Power.Offered,SoC
StopTxnAlignedDataMaxLength	20
StopTxnSampledData	Power.Offered,SoC
StopTxnSampledDataMaxLength	20
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	3
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	10
LocalAuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	-

Page **3** from **4**

Statement of Approval

Vendor		Date: 2023.04.11	
Name	Wonjoon Choi	Signature	
Company	PUMPKIN Co., Ltd		
Department	R&D Center		
Position	R&D Center Director		
Location	Namyangju, Korea		

Test laboratory		Date: 2023.04.11	
Name	Philip YANG	Signature	
Company	Korea Smart Grid Association		
Department	Quality Certification Center		
Position	Chief Researcher		
Location	Seoul, Korea		