OCPP 1.6
Subset Certificate

Certificate holder:	Bionever Inc.
Certificate number:	OCA.0016.0640.CS
Product type:	Charging Station
Product designation:	BSS011K-V1000 OCPP Software version: 1.0 Hardware feature set as stated below
Certification date:	March 13, 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*, March 13, 2024	*Test-Report_ChargingStation_v1.4__KTC2024-00084*

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:	KTC2024-00084
Vendor name:	Bionever Inc.
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	1.0
Product designation:	BSS011K-V1000

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:	20 s	00:00:13	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	**Bionever Inc.**
DUT / SUT	Charge Point
Communication	JSON
Type	BSS011K-V1000
OCPP Software version	1.0
OCTT version	OCTT 1.6 v1.4.4

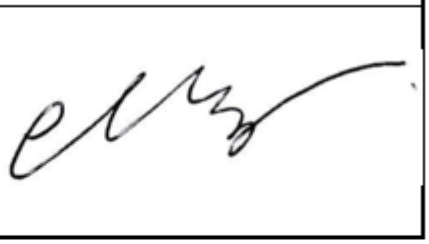
Hardware feature set	
Feature	**Configuration**
Socket(s) / connector(s)	Single
Fixed cable	Yes
Communication technology	ethernet
RFID readers	single

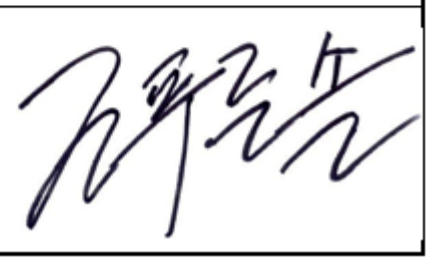
Non-OCPP Charge Point Configuration	
Configuration key	**Value**
<>	<>

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.	No

OCPP Charging Station Configuration	
Configuration key	**Value**
AllowOfflineTxForUnknownId	-
AuthorizationCacheEnabled	-
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	30
ConnectionTimeOut	60
ConnectorPhaseRotation	0.RST, 1.RST, 2.RTS
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	1
HeartbeatInterval	10
LightIntensity	-
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	-
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	-
MeterValueSampleInterval	10
MinimumStatusDuration	-
NumberOfConnectors	1
ResetRetries	3
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	-
StopTxnSampledData	Energy.Active.Import.Register
StopTxnSampledDataMaxLength	-
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	1
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	-
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	0
SendLocalListMaxLength	0
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	0
ChargingScheduleAllowedChargingRateUr	Current
ChargingScheduleMaxPeriods	0
ConnectorSwitch3to1PhaseSupported	0
MaxChargingProfilesInstalled	FTP
SupportedFileTransferProtocols	-

Statement of Approval

Vendor			Date: <2024.03.13>
Name	Sang Wook Oh		Signature
Company	Bionever Inc.		
Department	Research and Development Center		
Position	Managing Director		
Location	Seoul, Korea		

Test laboratory			Date: <2024.03.13>
Name	Sol Cho		Signature
Company	Korea Testing Certification institute		
Department	EV Charging & Power Transfer Center		
Position	Research engineer		
Location	Gyeonggi-do, Korea		