OCPP 1.6
Subset Certificate

Certificate holder: CHAEVI CO.,LTD

Certificate number: OCA.0016.0625.CS

Product type: Charging Station

Product designation: DCV-3FNHOC-F
OCPP Software version: CS.1.0.0.1
Hardware feature set as stated below

Certification date: January 30, 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 Smart Grid Association,* *January 30, 2024*	*(KSGA)CHAEVI_Test Report_DCV-3FNHOC-F_v1.5*

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

<table>
<tr><td colspan="2" align="center">**Test Report OCPP 1.6 Certification**</td></tr>
<tr><td>**Test laboratory:**</td><td>**Korea Smart Grid Association**</td></tr>
<tr><td>**Location:**</td><td>Seoul, Korea</td></tr>
<tr><td>**Test execution location:**</td><td>CHAEVI (Pangyo, Korea)</td></tr>
<tr><td>**Test Report Reference:**</td><td>KSGA-OCPP1.6TEST-016-2024</td></tr>
<tr><td>**Vendor name:**</td><td>**CHAEVI**</td></tr>
<tr><td>**Device Under Test:**</td><td>Charging Station</td></tr>
<tr><td>**Communication:**</td><td>JSON</td></tr>
<tr><td>**OCPP Software version:**</td><td>CS.1.0.0.1</td></tr>
<tr><td>**Product designation:**</td><td>DCV-3FNHOC-F</td></tr>
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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 Manageme	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:	90s	00:00:15	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	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	30s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	CHAEVI
DUT / SUT	Charging Station
Communication	JSON
Type	DCV-3FNHOC-F
OCPP Software version	CS.1.0.0.1
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	
BlinkRepeat	-
ClockAlignedDataInterval	
ConnectionTimeOut	
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	5
HeartbeatInterval	
LightIntensity	
LocalAuthorizeOffline	
LocalPreAuthorize	
MaxEnergyOnInvalidId	
MessageTimeout	
MeterValuesAlignedData	
MeterValuesAlignedDataMaxLength	200
MeterValuesSampledData	
MeterValuesSampledDataMaxLength	200
MeterValueSampleInterval	
MinimumStatusDuration	
NumberOfConnectors	1
ResetRetries	
StopTransactionMaxMeterValues	2.147.483.647
StopTransactionOnEVSideDisconnect	
StopTransactionOnInvalidId	
StopTxnAlignedData	
StopTxnAlignedDataMaxLength	200
StopTxnSampledData	
StopTxnSampledDataMaxLength	200
SupportedFeatureProfiles	
SupportedFeatureProfilesMaxLength	
TransactionMessageAttempts	
TransactionMessageRetryInterval	
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	5
LocalAuthListEnabled	
LocalAuthListMaxLength	
SendLocalListMaxLength	
ReserveConnectorZeroSupported	
ChargeProfileMaxStackLevel	
ChargingScheduleAllowedChargingRateUnit	
ChargingScheduleMaxPeriods	
ConnectorSwitch3to1PhaseSupported	
MaxChargingProfilesInstalled	
SupportedFileTransferProtocols	

Statement of Approval

Vendor		Date: 2024.01.30
Name	KyungSoo Bae	Signature
Company	CHAEVI	
Department	Technique Center	
Position	Managing Director	
Location	Daegu, Korea	

Test laboratory		Date: 2024.01.30
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	
Department	Quality Certifcation Center	
Position	Chief Researcher	
Location	Seoul, Korea	