OCPP 1.6 Full Certificate



Certificate holder: CHAEVI CO.,LTD

Certificate number: OCA.0016.0623.CS

Product type: Charging Station

Product designation: CV-3FS50P-U

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 are also covered by this certification.

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_CV- 3FS50P-U_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

Test laboratory: Korea Smart Grid Association			
Location: Seoul, Korea			
Test execution location: CHAEVI (Pangyo, Korea)			
Test Report Reference: KSGA-OCPP1.6TEST-015-2024			
Vendor name:	CHAEVI		
Device Under Test: Charging Station			
Communication: JSON			
OCPP Software version: CS.1.0.0.1			
Product designation:	CV-3FS50P-U		

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	Pass	Support for (remote) firmware update management and diagnostic log file download.
Smart Charging	Pass	Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation	Pass	Support for reservation of a connector of a Charging Station.
Local Authorization List Manageme	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Remote Trigger	Pass	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	00:00:14	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	00:00:04	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
Туре	CV-3FS50P-U
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></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



	W. I
Configuration key	Value
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
Clock Aligned Data Interval	0
ConnectionTimeOut	30
Connector Phase Rotation	NotApplicable
Connector Phase Rotation Max Length	-
GetConfigurationMaxKeys	5
HeartbeatInterval	30
LightIntensity	-
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
Max Energy On Invalid Id	-
MessageTimeout	-
Meter Values Aligned Data	Energy.Active.Import.Register
Meter Values Aligned Data Max Length	200
Meter Values Sampled Data	Energy.Active.Import.Register
Meter Values Sampled Data Max Length	200
MeterValueSampleInterval	20
MinimumStatusDuration	-
NumberOfConnectors	1
ResetRetries	3
StopTransactionMaxMeterValues	2.147.483.647
Stop Transaction On EV Side Disconnect	TRUE
Stop Transaction On Invalid Id	TRUE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	200
StopTxnSampledData	-
StopTxnSampledDataMaxLength	200
	Core, Firmware Management, Local Aut
SupportedFeatureProfiles	hListManagement,Reservation,Smart
	Charging,RemoteTrigger
Supported Feature Profiles Max Length	10
Transaction Message Attempts	3
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	5
3	
LocalAuthListEnabled	TRUE
Local AuthList Max Length	5
Send Local List Max Length	5
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	3
Charging Schedule Allowed Charging Rate Unit	Ampère
Charging Schedule Max Periods	300
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	3
Supported File Transfer Protocols	http, https

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Statement of Approval

Vendor		Date : 2024.01.30
Name	KyungSoo Bae	Signature
Company	CHAEVI	w/200 9 1
Department	Technique Center	13M22
Position	Managing Director	
Location	Daegu, Korea	£"

Test laboratory		Date : 2024.01.30
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	6
Department Quality Certification Center		
Position	Chief Researcher	
Location	Seoul, Korea	