OCPP 1.6 Subset Certificate



Certificate holder:	ELECTREE
Certificate number:	OCA.0016.0689.CS
Product type:	Charging Station
Product designation:	ELT-FLD-100-03 OCPP Software version: V16 Hardware feature set as stated below
Certification date:	March 28, 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, March 28, 2024	(KSGA)ELECTREE_Test Report_ELT-FLD-100-03_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 Report OCPP 1.6 Certification				
Test laboratory: Korea Smart Grid Association				
Location: Seoul, Korea				
Test execution location: Elec-tree (Bucheon, Korea)				
Test Report Reference: KSGA-OCPP1.6TEST-018-2024				
Vendor name: Elec-tree				
Device Under Test:	Device Under Test: Charging Station			
Communication: JSON				
OCPP Software version: V16				
Product designation:	Product designation: ELT-FLD-100-03			

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	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.		

Page 1 from 4



Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60s	00:00:09	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:	60s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	60s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Elec-tree
DUT / SUT	Charging Station
Communication	JSON
Туре	ELT-FLD-100-03
OCPP Software version	V16
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Multiple			
Fixed cable	<yes></yes>			
Communication technology	Ethernet	Ethernet		
RFID readers	Single	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

Page 2 from 4

Configuration keyValueAllowOfflineTxForUnknownidTRUEAuthorizeRemoteTxRequestsTRUEBlinkRepeat-ClockAlignedDataInterval0ConnectorPhaseRotationRSTConnectorPhaseRotationMaxLength-GetConfigurationMaxKeys6HearbeatInterval30LightIntensity-LocalAuthorizeOfflineFALSELocalAuthorizeOffline-MaxEnergyOnInvalidId9999MessageTimeout-MeterValuesAlignedDataEnergyActive.Import.RegisterMeterValuesAlignedDataEnergyActive.Import.RegisterMeterValuesSampledData5StopTransactionOntevSideDisconnectTRUEStopTansactionOntevSideDisconnectTRUEStopTansactionOntevSideDisconnect-StopTansactionOntevSideDisconnect-TransactionOntevSideDisconnect-StopTansageRetryInterval0UnlockConnectorOnectors-StopTansactionOntevSideDisconnect-TransactionOntevSideDisconnect-TransactionOntevSideDisconnect-TransactionMaxMeterValues9999SupportedFeatureProfilesCore,LocalAuthListManagement,RemoteTriggerSupportedFeatureProfilesMaxLength-TransactionMessageRetryInterval0UnlockConnectorOnectorFALSEWebSocketPingInterval300LocalAuthListMaxLength9999SendLocalListMaxLength9999SendLocalListMaxLength9999SendLoc	OCPP Charging Station Configuration			
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MaxChargingProfilesInstalled -		-		
SupportedFileTransferProtocols -		-		
	SupportedFileTransferProtocols	-		

Subset Certified

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



Statement of Approval

Vendor		Date: 2024.03.28
Name	Yeonwoo Lee	Signature
Company	Elec-tree	
Department	Research and Development center	leeyeonwoo
Position	Director	
Location	Seoul, Korea	

Test laboratory		Date: 2024.03.28
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	4
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	/

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