OCPP 1.6 Subset Certificate



Certificate holder: AHA Co., Ltd

Certificate number: OCA.0016.0517.CS

Product type: Charging Station

Product designation: A100-B460

OCPP Software version: VF2023-R001 Hardware feature set as stated below

Certification date: October 6, 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, October 6, 2023	(KSGA)AHA_Test Report template_A100-B460_231006

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



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-177-2023			
Vendor name:	AHA Co., Ltd			
Device Under Test:	Charging Stati	ion		
Communication:	JSON			
OCPP Software version:	VF2306-R001			
Test Result Summary	for the ce	ertified functionalities		
Functionalities	OCPP 1.6	Description		
	Certification			
	Test Results			
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		
Smart energing	NA	types, including stacking), to control		
		charging.		
Reservation	N/A	Support for reservation of a connector		
	14/71	of a Charging Station.		
		or a criarging station.		
Local Authorization List Managemen	N/A	Features to manage a local list in the		
	14/71	charging station containing		
		authorization data for whitelisting		
		users.		
Remote Trigger	N/A	Support for remotely triggering		
33	N/A	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	00:00:06	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	AHA Co., Ltd
DUT / SUT	Charging Station
Communication	JSON
Туре	A100-B460
OCPP Software version	VF2023-R001
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Multiple			
Fixed cable	<yes></yes>			
Communication technology	Wifi, Ethernet, Mobile network			
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	seconds in Yes			
timestamps.				



Configuration key	Value
AllowOfflineTxForUnknownId	-
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	FALSE
BlinkRepeat	3
ClockAlignedDataInterval	0
ConnectionTimeOut	30
ConnectorPhaseRotation	-
Connector Phase Rotation Max Length	_
GetConfigurationMaxKeys	20
HeartbeatInterval	300
LightIntensity	80
Local Authorize Offline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	5000
MessageTimeout	-
Meter Values Aligned Data	-
Meter Values Aligned Data Meter Values Aligned Data Max Length	12
Meter Values Aligned Data Max Length Meter Values Sampled Data	12
Meter Values Sampled Data Max Length	12
Meter ValueSampleInterval	15
MinimumStatusDuration	0
Number Of Connectors	
	2
ResetRetries	3
StopTransactionMaxMeterValues	100000000
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	12
StopTxnAlignedDataMaxLength	- 12
StopTxnSampledData	12
StopTxnSampledDataMaxLength	Core
SupportedFeatureProfiles	
SupportedFeatureProfilesMaxLength	-
Transaction Message Attempts	3
FransactionMessageRetryInterval	30
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	540
.ocalAuthListEnabled	-
ocal Auth List Max Length	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
··	
ChargeProfileMaxStackLevel	-
Charging Schedule Allowed Charging Rate Unit	-
Charging Schedule Max Periods	-
ConnectorSwitch3to1PhaseSupported	-
Max Charging Profiles Installed	-
Supported File Transfer Protocols	-

Page 3 from 4



Statement of Approval

Vendor			Date : 2023.10.06
Name	Sangtaek Lim		Signature
Company	AHA Co., Ltd		0
Department	R&D Center		1 -
Position	Principal Researcher		dinist
Location	Gimpo, Korea		

Test laboratory		Date : 2023.10.06
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	1.0
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	