OCPP 1.6 Subset Certificate



Certificate holder:	Blue Networks Co. Ltd.
Certificate number:	OCA.0016.0328.CS
Product type:	Charging Station
Product designation:	ECU-M5002 OCPP Software version: Ver : 03.01.13 Hardware feature set as stated below
Certification date:	April 14, 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, April 14, 2023	(KSGA)BlueNetworks_Test Report template_ECU-M5002_230414

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 Report Reference:	KSGA-OCPP1.	6TEST-067-2023			
Vendor name:	Blue Network	s Co. Ltd.			
Device Under Test:	Charging Stat	ion			
Communication:	JSON				
OCPP Software version:	Ver : 03.01.13				
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			
		types, including stacking), to control			
		charging.			
Reservation	N/A	Support for reservation of a connector			
		of a Charging Station.			
Local Authorization List Managemen					
Local Authorization List Managemen	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:	60s	00:00:49	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:	10s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	5s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Blue Networks Co. Ltd.
DUT / SUT	Charging Station
Communication	JSON
Туре	ECU-M5002
OCPP Software version	Ver : 03.01.13
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			
RFID readers	Single			

Non-OCPP Charge Point Configuration				
Configuration key Value				
o o				

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

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OCPP Charging Station Configuration			
Configuration key	Value		
AllowOfflineTxForUnknownId	-		
AuthorizationCacheEnabled	-		
AuthorizeRemoteTxRequests	TRUE		
BlinkRepeat	-		
ClockAlignedDataInterval	0		
ConnectionTimeOut	30		
ConnectorPhaseRotation	-		
ConnectorPhaseRotationMaxLength	-		
GetConfigurationMaxKeys	1		
HeartbeatInterval	20		
LightIntensity	-		
LocalAuthorizeOffline	TRUE		
LocalPreAuthorize	FALSE		
MaxEnergyOnInvalidId	-		
MessageTimeout	-		
MeterValuesAlignedData	Energy, Active, Import, Register		
MeterValuesAlignedDataMaxLength	1		
MeterValuesSampledData	Energy.Active.Import.Register		
MeterValuesSampledDataMaxLength	1		
MeterValueSampleInterval	30		
MinimumStatusDuration	30		
NumberOfConnectors	2		
ResetBetries	1		
StopTransactionMaxMeterValues	1		
	TRUE		
StopTransactionOnInvalidId	TRUE		
StopTxnAlignedData	-		
StopTxnAlignedDataMaxLength	1		
StopTxnSampledData	_		
StopTxnSampledDataMaxLength	1		
SupportedFeatureProfiles	Core		
SupportedFeatureProfilesMaxLength	-		
TransactionMessageAttempts	1		
	1		
UnlockConnectorOnEVSideDisconnect	FALSE		
WebSocketPingInterval	55		
 LocalAuthListEnabled			
LocalAuthListMaxLength SendLocalListMaxLength	-		
ReserveConnectorZeroSupported	-		
ChargeProfileMaxStackLevel	-		
ChargingScheduleAllowedChargingRateUnit	-		
ChargingScheduleMaxPeriods	-		
ConnectorSwitch3to1PhaseSupported	-		
MaxChargingProfilesInstalled	-		
SupportedFileTransferProtocols	-		

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Statement of Approval

Vendor		Date: 2023.04.14
Name	Choi, Jaehoon	Signature
Company	Blue Networks Co. Ltd.	14
Department	R&D Team	
Position	Director	No.
Location	Seoul, Korea	. 105

Test laboratory		Date: 2023.04.14
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	4
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	/

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