OCPP 1.6
Subset Certificate

OCPP 1.6
Subset
Certified

Certificate holder:	ABB E-mobility B.V.
Certificate number:	OCA.0016.0653.CS
Product type:	Charging Station
Product designation:	Terra 184 OCPP Software version: 1.7.4.135 Hardware feature set as stated below
Certification date:	April 19, 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	*DEKRA Certification, Inc.,* April 19, 2024	*04248_TestReport_ABB*

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:	**DEKRA Certification, Inc**
Location:	Sterling, VA
Test execution location:	Sterling, VA
Test Report Reference:	4248.001
Vendor name:	
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	1.7.4.135
Product designation:	Terra 184

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 Management	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:	60 sec	36 sec	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:	10 sec	3 sec	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 sec	< 1 sec	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	ABB E-mobility B.V.
DUT / SUT	Charge Point
Communication	JSON
Type	Terra 184
OCPP Software version	1.7.4.135
OCTT version	OCTT 1.6 v.1.4.4

Hardware feature set	
Feature	Configuration
Socket(s) / connector(s)	Multiple
Fixed cable	Yes
Communication technology	Ethernet, Mobile Network
RFID readers	Single

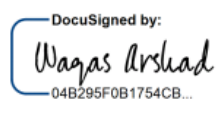| Non-OCPP Charge Point Configuration	
Configuration key	Value
<>	<>

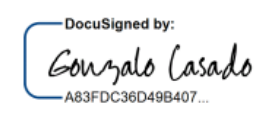| All other relevant limits and non-OCPP settings that are relevant for the test laboratory and for the correct functioning of the CSMS:	
Limit / setting	Value
Device supports sending milliseconds in timestamps.	Yes

OCPP Charging Station Configuration

Configuration key	Value
AllowOfflineTxForUnknownId	FALSE
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	FALSE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	Unknown
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	200
HeartbeatInterval	60
LightIntensity	-
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	10
MeterValuesAlignedData	SoC,Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	1
MeterValuesSampledData	SoC,Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	1
MeterValueSampleInterval	0
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	5
StopTransactionMaxMeterValues	2
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	2
StopTxnSampledData	-
StopTxnSampledDataMaxLength	1
SupportedFeatureProfiles	Core,LocalAuthListManagement,Smart Charging
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	10
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	30
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	10000
SendLocalListMaxLength	1000
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	10
ChargingScheduleAllowedChargingRateUnit	Current,Power
ChargingScheduleMaxPeriods	24
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	10
SupportedFileTransferProtocols	HTTP, HTTPs

Statement of Approval

Vendor		Date:	4/19/2024
Name	Waqas Arshad	Signature	
Company	ABB E-mobility B.V.		
Department	Hardware		DocuSigned by:
Position	Head of Platform		*Waqas Arshad*
Location	Raleigh, NC		04B295F0B1754CB...

Test laboratory		Date:	4/18/2024
Name	Gonzalo Casado	Signature	
Company	DEKRA Certification Inc		
Department	Carrier & Connectivity Services		DocuSigned by:
Position	Carrier & Connectivity Lab Manager		*Gonzalo Casado*
Location	Sterling, VA		A83FDC36D49B407...