OCPP 1.6 Full Certificate



Certificate holder: Tide Co., Ltd

Certificate number: OCA.0016.0272.CS

Product type: Charging Station

Product designation: TEVS10-K11

OCPP Software version: 1.0.0

Hardware feature set as stated below

Certification date: February 2, 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 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, February 2, 2023	(KSGA)Tide_Test Report template_20230202_TEVS10- K11_0202

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-015-2023				
Vendor name:	Tide Co., Ltd.			
Device Under Test: Charging Station				
Communication: JSON				
OCPP Software version:	1.0.0			

Test Result Summary for the certified functionalities

Functionalities	OCPP 1.6 Certification	Description
	Test Results	
Core		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

Performance Measurement Results							
Name PICS value Measured value			Description				
OCPP triggered function timeout:	15s	0:00:08	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	00:00:35	The response time for when waiting for an OCPP response message.				
Response time RemoteStartTransaction:	15s	00:00:00	The response time for the RemoteStartTransaction message.				

Test Configuration

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Vendor	Tide Co., Ltd.
DUT / SUT	Charging Station
Communication	JSON
Туре	TEVS10-K11
OCPP Software version	1.0.0
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, Mobile Network			
RFID readers	Single			

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

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OCPP Charging Station	Configuration
Configuration key	Value
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat .	-
ClockAlignedDataInterval	20
ConnectionTimeOut	60
ConnectorPhaseRotation	1
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	1
HeartbeatInterval	20
LightIntensity	-
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	TALSE
MessageTimeout	-
	Francis Astivo Import Posistor
MeterValuesAlignedData	Energy.Active.Import.Register 5
MeterValuesAlignedDataMaxLength	-
MeterValuesSampledData	Energy, Active, Import, Register
MeterValuesSampledDataMaxLength	5
MeterValueSampleInterval	20
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	1
StopTransactionMaxMeterValues	1
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	1
StopTxnSampledData	-
StopTxnSampledDataMaxLength	1
Cumparted Fasture Destilles	Core,FirmwareManagement,Local AuthListManagement,Reservation,
SupportedFeatureProfiles	SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	Smartcharging, lemote migger
TransactionMessageAttempts	1
TransactionMessageRetryInterval	1
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	300
weboocketringinterval	300
LocalAuthListEnabled	TRUE
LocalAuthListMaxLength	20
SendLocalListMaxLength	20
ReserveConnectorZeroSupported	FALSE
ChargeProfileMaxStackLevel	3
ChargingScheduleAllowedChargingRateUnit	Ampère & Watt
ChargingScheduleMaxPeriods	800
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	4
SupportedFileTransferProtocols	ftp
eappertour no manorom rottours	142

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Statement of Approval

Vendor			Date: 2023.02.02
Name	Cho Kyung Chong		Signature
Company	Tide Co., Ltd.		N/
Department	Research Center		
Position	CEO		190
Location	Seoul, Korea		7733

Test laboratory		Date: 2023.02.02
Name Philip YANG		Signature
Company	Korea Smart Grid Association	6
Department Quality Certification Center		
Position	Senior Researcher	
Location	Seoul, Korea	/