

# OCPP 1.6 Subset Certificate



**Certificate holder:** Manageon

**Certificate number:** OCA.0016.0045.CS

**Product type:** Charging Station

**Product designation:** OctoFLEX (OTM-K)  
OCPP Software version: 1.0.1

**Certification date:** January 28, 2022

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, January 28, 2022	KSGA_20220128_Test Report_Manageon_V105

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

A blue ink signature of Onoph Caron.

## Abstract of test report

### Test Result Summary

Test Report OCPP 1.6 Certification	
<b>Test laboratory:</b>	<b>Korea Smart Grid Association</b>
<b>Location:</b>	Seoul , Korea
<b>Test Report Reference:</b>	KSGA_20220128_Test Report_Manageon_V105
<b>Vendor name:</b>	<b>MANAGEON</b>
<b>Device Under Test:</b>	Charging Station
<b>Communication:</b>	JSON
<b>OCPP Software version:</b>	1.0.1

Test Result Summary for the certified functionalities		
Functionalities	OCPP 1.6 Certification Test Results	Description
<b>Core</b>	<b>Pass</b>	Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.
<b>Optional functionalities</b>		
<b>Firmware Management</b>	<b>N/A</b>	Support for (remote) firmware update management and diagnostic log file download.
<b>Smart Charging</b>	<b>N/A</b>	Support for Smart Charging (all profile types, including stacking), to control charging.
<b>Reservation</b>	<b>N/A</b>	Support for reservation of a connector of a Charging Station.
<b>Local Authorization List Manager</b>	<b>N/A</b>	Features to manage a local list in the charging station containing authorization data for whitelisting users.
<b>Remote Trigger</b>	<b>N/A</b>	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

Performance Measurement Results			
Name	PICS value	Measured value	Description
OCPP triggered function timeout:	5s	00:00:04	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:	5s	00:00:02	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	5s	00:00:02	The response time for the RemoteStartTransaction message.

## Test Configuration

Test Configuration	
Vendor	MANAGEON
DUT / SUT	Charging Station
Communication	JSON
Type	OTM-K
OCPP Software version	1.0.1
OCTT version	OCTT 1.6 v1.4.2


Hardware feature set	
Feature	Configuration
Socket(s) / connector(s)	Multiple
Fixed cable	<Yes>
Communication technology	Ethernet
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	TRUE
ClockAlignedDataInterval	60
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	20
HeartbeatInterval	30
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	<optional>
MessageTimeout	60
MeterValuesAlignedData	Energy.Active.Import.Register, Current.Import, Voltage
MeterValuesAlignedDataMaxLength	3
MeterValuesSampledData	Energy.Active.Import.Register, Current.Import, Voltage
MeterValuesSampledDataMaxLength	3
MeterValueSampleInterval	60
MinimumStatusDuration	<optional>
NumberOfConnectors	20
ResetRetries	3
StopTransactionMaxMeterValues	2.147.483.647
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	Energy.Active.Import.Register, Current.Import, Voltage
StopTxnAlignedDataMaxLength	3
StopTxnSampledData	Energy.Active.Import.Register, Current.Import, Voltage
StopTxnSampledDataMaxLength	3
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	1
TransactionMessageAttempts	3
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	0
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	-

Statement of Approval

Vendor		Date: 2022.01.28
Name	LEE NAE HUN	Signature
Company	MANAGEON	
Department	Headquarters	
Position	CEO	
Location	Incheon, Korea	

Test laboratory		Date: 2022.01.28
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	