OCPP 1.6 Subset Certificate



Certificate holder: JoongAng Control Co., Ltd

Certificate number: OCA.0016.0264.CS

Product type: Charging Station

Product designation: JC-9502-200-CW

OCPP Software version: 0.0.1

Hardware feature set as stated below

Certification date: January 17, 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, January 17, 2023 | (KSGA)Joas_Test Report template_CS_JC-9502-200- CW_230117 |

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-010-2023 | | | |
| Vendor name: | JoongAng Control Co., Ltd | | |
| Device Under Test: | Charging Station | | |
| Communication: | JSON | | |
| OCPP Software version: | 0.0.1 | | |

| 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 Managemer | 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

| Performance Measurement Results | | | | |
|--|------------|----------------|---|--|
| Name | PICS value | Measured value | Description | |
| OCPP triggered function timeout: | 120s | 0:01:43 | 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: | 30s | 00:00:01 | The response time for when waiting for an OCPP response message. | |
| Response time RemoteStartTransaction: | 30s | 00:00:00 | The response time for the RemoteStartTransaction message. | |

Test Configuration

Test Configuration

| Vendor | JoongAng Control Co., Ltd |
|-----------------------|---------------------------|
| DUT / SUT | Charging Station |
| Communication | JSON |
| Туре | JC-9502-200-CW |
| OCPP Software version | 0.0.1 |
| 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, Wifi | | |
| 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 | | | |
| | | | |

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| Configuration key Yalue AllowOfflineTsForUnknownId TRUE AuthorizeFenoteTsRequests TRUE BlinkRepeat . Clock AlignedDataInterval 15 ConnectorPhaseRotation RST ConnectorPhaseRotationMaxLength 3 GetConfigurationMaxKeys 3 HeartbeatInterval 20 LightIntensity TRUE LocalPreAuthorize Offline TRUE MaxEnergyOnInvalidid - MessageTimeout Energy.Active.Import.Register MeterValuesAlignedDataMaxLength 8 MeterValuesSampledDataMaxLength 8 MeterValuesSampledDataMaxLength 8 MeterValueSampledDataMaxLength 8 MeterValueSampledDataMaxLength 8 MeterValueSampledDataMaxLength 8 MeterValueSampledDataMaxLength 30 MinimumStatusDuration - NumberOfConnectors 2 ResetRetries 3 StopTransactionOnEVSideDisconnect FALSE StopTxnAlignedData Energy.Active.Import. D | AllowOfflineTxForUnknownId AuthorizationCacheEnabled AuthorizeRemoteTxRequests BlinkRepeat ClockAlignedDataInterval ConnectionTimeOut ConnectorPhaseRotation ConnectorPhaseRotationMaxLength GetConfigurationMaxKeys HeartbeatInterval LightIntensity LocalAuthorizeOffline LocalPreAuthorize MaxEnergyOnInvalidId MessageTimeout MeterValuesAlignedData MeterValuesAlignedData MeterValuesSampledData MeterValueSampleInterval MinimumStatusDuration NumberOfConnectors ResetRetries StopTransactionOnEvSideDisconnect StopTransactionOnInvalidId StopTxnAlignedData StopTxnAlignedDataMaxLength | TRUE TRUE TRUE |
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| | ConnectorSwitch3to1PhaseSupported | |
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| MaxChargingProfilesInstalled - | maxonarying=romesinstalled | - |
| | SupportedFileTransferProtocols | - |

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Statement of Approval

| Vendor | | Date: 2023.01.17 |
|------------|---------------------------|------------------|
| Name | Su-jin Kim | Signature |
| Company | JoongAng Control Co., Ltd | , |
| Department | Software convergence team | L/. |
| Position | Researcher | |
| Location | Goyang, Korea | , |

| Test laboratory | | Date : 2023.01.17 |
|-----------------|------------------------------|--------------------------|
| Name | Philip YANG | Signature |
| Company | Korea Smart Grid Association | ام |
| Department | Quality Certification Center | |
| Position | Senior Researcher | |
| Location | Seoul, Korea | / |