OCPP 2.0.1 CORE CERTIFIED

Certificate Holder:	**Orange Charger**
Certificate Number:	**F01.OCA.0201.0195.CS**
Product Type:	**Charging Station**
Product Family Name:	**Orange EVSE**
Product Designation:	**920140**
Firmware Version:	**6.7**
Certification Date:	**September 29, 2026**

This certificate attests that the above mentioned product - a representative product for an OCPP product family - successfully completed certification testing in conformance with the reference specification OCPP 2.0.1 (Edition 4 FINAL, 2025-12-03 including Errata 2026-06). The optional OCPP protocol features that are covered by this certificate can be found in the Abstract of the Test Report that is part 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 this complete test report.

Applied	Performed by / On	Document Evidence
Conformance testing according to the test specification referenced by the test report	DEKRA Certification Inc September 17, 2026	OrangeCharger_OCPP_v2.0.1_evse-140-pics-3.0.4_Signed

The abstract of test report 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 the Test Report

Test Report OCPP 2.0.1 Certification

Test laboratory:	DEKRA Certification Inc
Location:	Sterling, Virginia, USA
Test Report Reference:	05668BRCO.001

Product Family Name:	Orange EVSE
Product Designation:	920140
Vendor name:	Orange Charger
Device Under Test:	Charging Station
Firmware Version:	6.7
Config ID:	799FD14E-A4515120

Test Result Summary for the Certified Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Not Tested	Support for Smart Charging, to control charging.
ISO 15118 Support	Not Tested	Support for ISO 15118 Smart Charging and Plug and Charge authorization.

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	No
HFS-2	Has a fixed cable	Yes
HFS-3	Has AC support	Yes
HFS-4	Has DC support	No
HFS-5	Has 1 phase support	Yes
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	No
HFS-8	No. EVSEs	1
HFS-9	Communication technology	WiFi
HFS-10	RFID readers	None
HFS-12	Number of displays	0

EVSE	Current	Phases	Connector	Type	Cable Type
1	AC	1	1	cType1	Fixed Cable



Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not. Please refer to part 5 of the OCPP specification for the list of optional features and the reference to the relevant use cases in part 2 of the OCPP specification.

Core

ID	Core Features	Supported / Present
C-01	Support for offline authorization of transactions	No
C-02	Support for allowing Offline Authorization for Unknown Ids	No
C-03	Support for maximizing energy for invalid ids	No
C-04	Support to limit StatusNotifications	No
C-06	Authorization status after cable disconnected on EV side	
C-06.1	Support for maintaining authorization when cable disconnected on EV side	No
C-06.2	Support for not maintaining authorization when cable disconnected on EV side	Yes
C-07	Support for using a Master Pass for charging stations with UI	No
C-08	Support for using a Master Pass for charging stations without UI	Yes
C-09	Supported Transaction Start points	
C-09.1	Start transaction options - EVConnected	No
C-09.2	Start transaction options - Authorized	Yes
C-09.3	Start transaction options - DataSigned	No
C-09.4	Start transaction options - PowerPathClosed	No
C-09.5	Start transaction options - EnergyTransfer	No
C-09.6	Start transaction options - ParkingBayOccupancy	No
C-10	Supported Transaction Stop points	
C-10.1	Stop transaction options - EVConnected	Yes
C-10.2	Stop transaction options - Authorized	Yes
C-10.3	Stop transaction options - PowerPathClosed	No
C-10.4	Stop transaction options - EnergyTransfer	No
C-10.5	Stop transaction options - ParkingBayOccupancy	No
C-12	Unlocking of connector when cable disconnected on EV side	

ID	Core Features	Supported / Present
C-12.1	Support for unlocking connector when cable disconnected on EV side	No
C-12.2	Support for not unlocking when cable disconnected on EV side	Yes
C-13	Support for Reset per EVSE	No
C-14	Support for retrieving / deleting CustomerInformation - CustomerIdentifier	No
C-20	Allowing New Sessions Pending a FirmwareUpdate	No
C-21	Support for queuing all or only Transaction related messages until they are delivered to the CSMS	No
C-23	Supported time sources	Heartbeat
C-25	Support for setting a TimeOffset	No
C-26	Support for setting the TimeZone	No
C-28	Toggle sending clock aligned meter values when a transaction is ongoing / Idle	No
C-29	TriggerMessage	
C-29.1	Trigger message - MeterValues	Yes
C-29.2	Trigger message - TransactionEvent	Yes
C-29.3	Trigger message - LogStatusNotification	No
C-29.4	Trigger message - FirmwareStatusNotification	Yes
C-29.5	Trigger message - StatusNotification	Yes
C-29.6	Trigger message - BootNotification	Yes

ID	Authorization Options for Local Start	Tested During Certification
C-30	Authorization - using RFID ISO14443	No
C-31	Authorization - using RFID ISO15693	No
C-32	Authorization - using KeyCode	No
C-33	Authorization - using locally generated id	No
C-34	Authorization - MacAddress	No
C-35	Authorization - NoAuthorization	No

ID	Authorization Options for Local Stop	Tested During Certification
C-70	Authorization - using RFID ISO14443	No
C-71	Authorization - using RFID ISO15693	No
C-72	Authorization - using KeyCode	No
C-75	Authorization - NoAuthorization	No

ID	Authorization Options for Remote Start	Tested During Certification
C-36	Authorization - using RFID ISO14443	Yes
C-37	Authorization - using RFID ISO15693	No
C-38	Authorization - using centrally, in the CSMS generated id	No
C-39	Authorization - NoAuthorization	No

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-40	Supported MeterValue Measurands		
C-40.1	SampledTxStarted Measurands	Energy.Active.Import.Register	Energy.Active.Import.Register Current.Import
C-40.2	SampledTxUpdated Measurands	Energy.Active.Import.Register	Energy.Active.Import.Register
C-40.3	SampledTxEnded Measurands	Energy.Active.Import.Register	Energy.Active.Import.Register
C-40.4	AlignedData Measurands	Energy.Active.Import.Register	Energy.Active.Import.Register Voltage
C-40.5	AlignedDataTxEnded Measurands	Energy.Active.Import.Register	Energy.Active.Import.Register Voltage

ID	Cipher Suites	Supported / Present
C-41	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384

ID	Core Features	Supported / Present
C-42	Signed Metervalues	No
C-43	Install Firmware with ongoing transaction	No
C-47	Support for falling back to default OCPP reconnection mechanism when NetworkConnection profile connection has failed	No
C-48	Authorization of remote start	
C-48.1	Option for authorization in case of a remote start	Yes
C-48.2	Option for no authorization in case of a remote start	Yes
C-58	Option for disabling remote authorization	No

ID	Core Features	Supported / Present
C-49	Authorization Cache	No
C-59	Option for disabling remote authorization for cached invalid idTokens	No
C-51	Configurable TxStartPoint	No
C-52	Configurable TxStopPoint	No
C-53	Support for lifetime cached token	No
C-54	Supported policies for replacing cached entries	No
C-56	Support for providing the SummaryInventory	No
C-57	Support for cancelling ongoing log file upload	No
C-60	Support for cancelling ongoing firmware update	No
C-61	Security Profile 1 - Unsecured Transport with Basic Authentication	No

ID	Reservations	Supported / Present
R-0	Support for Reservation	No
R-1	Support for reservations of connectorType	No
R-2	Support for reservation of unspecified EVSE	No
R-3	Support for disabling Reservations	No

ID	Advanced Device Management	Supported / Present
DM-0	Support for Advanced Device Management	No
DM-3	Queue notifyEventRequest messages for specific severities	No

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	No
LA-1	Authorization list support	No
LA-3	Option for disabling remote authorization for invalid idTokens stored at the Local Authorization List	No

ID	Advanced User Interface	Supported / Present
UI-0	Support for Advanced User Interface	No

ID	Advanced User Interface	Supported / Present
UI-1	Supported message priorities	
UI-1.1	AlwaysFront	No
UI-1.2	InFront	No
UI-1.3	NormalCycle	No
UI-2	Supported message formats	
UI-2.1	ASCII	No
UI-2.2	HTML	No
UI-2.3	URI	No
UI-2.4	UTF8	No

Advanced Security

ID	Certification Profile: Advanced Security	Supported / Present
AS-2	Additional root certificate check mechanism implemented	No
AS-3	Update Charging Station Certificate - CertificateSignedRequest Timeout	No

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
AQ-1	Can the last CSMSRootCertificate be removed?	No
AQ-2	Does the Charging Station have a cable lock, which prevents the EV driver to connect the EV and EVSE before authorization?	No
AQ-3	Can the last ChargingStationCertificate be removed?	No
AQ-4	Is there at least one unsupported NumberOfPhases?	No
AQ-5	Does the Charging Station have at least one hardWired monitor?	No
AQ-6	Does the Charging Station have a pre-configured monitor?	No
AQ-7	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes

ID	Additional Questions for Lab Testing	Answer
AQ-8	Does your Charging Station enforce a selection of EVSE prior to authorization?	No
AQ-9	Does your Charging Station support charging an EV using IEC 61851-1?	No
AQ-10	Does your Charging Station support setting a Delta monitor on the WriteOnly component.variable SecurityCtrlr.BasicAuthPassword?	No
AQ-11	Does your Charging Station support a combined charging station Certificate	No
AQ-18	Does your Charging Station have at least one connector with an mechanized locking mechanism on Charging Station side?	No

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	ItemsPerMessageGetReport	100
ORS-2	ItemsPerMessageGetVariables	100
ORS-3	ItemsPerMessageSetVariables	100
ORS-4	BytesPerMessageGetReport	4096
ORS-5	BytesPerMessageGetVariables	4096
ORS-6	BytesPerMessageSetVariables	4096
ORS-16	WebSocketPingInterval	30

ID	Security Related Settings	Value
ORS-17	Maximum CertificateEntries supported	4
ORS-18	MaxCertificateChainSize	10000

ID	Firmware Management Settings	Value
ORS-24	Supported file transfer protocols	HTTP HTTPS

Performance Measurement Result

The tables below shows the list of key performance indicators that are measured during the conformance test. The first table indicates the values that the vendor indicates that are valid maximum values for this product. The second table lists the actual performance measurements during the tests performed in a controlled environment.

Name	Max Value	Unit	Description
OCPP response time	10	seconds	The response time for when waiting for an OCPP response message after sending an OCPP request message. This entails all OCPP messages. Messages to the DUT can be handled within this timeout.
OCPP triggered function response time	5	seconds	The response time used when waiting for an asynchronous OCPP report after requesting this report.
Transaction authorization time by RequestStartTransactionRequest	2	seconds	The time between a RequestStartTransactionRequest and the corresponding TransactionEventRequest. Only cases where the RequestStartTransactionRequest immediately results in an authorization followed by a TransactionEventRequest, without the need of any additional manual actions or chargingState transitions inbetween are included.
Transaction authorization end time by RequestStopTransactionRequest	2	seconds	The time between a RequestStopTransactionRequest and the corresponding TransactionEventRequest Only cases where the RequestStopTransactionRequest immediately results in an end of the authorization followed by a TransactionEventRequest, that do not contain transactionInfo.chargingState = EVConnected are included.

Name	Min Value	Max Value	Average Value	Unit
OCPP response time	0.10	1.03	0.14	seconds
OCPP triggered function response time	0.25	1.49	1.03	seconds
Transaction authorization time by RequestStartTransactionRequest	0.45	0.83	0.62	seconds
Transaction authorization end time by RequestStopTransactionRequest	not measurable	not measurable	not measurable	seconds

Communication technology used during performance measurement	WiFi

Statement of Approval

Vendor		
Name	James Lyons	Date: 2026-09-17
Company	Orange Charger	Signature:
Department	Engineering	
Position	Head of Engineering	
Location	Menlo Park, CA	

Test Laboratory		
Name	Avinash Koduri	Date: 2026-09-29
Name reviewer	Gonzalo Casado	Signature:
Company	DEKRA Certification Inc	
Department	Connectivity & E-Mobility	
Position	Director	
Location	Sterling, Virginia, USA	

OCTT Version	Release_2026-06_V2
OCTT Instance ID	97c49552d423d6e947b631fce50d2b13
Firmware image hash	39fd2a825af9fc7aa0b9bc7a52441b93598229d3b095bd197ab9762607193b0b

Product Family Members Overview

The table below lists the OCPP product family members for the Representative Product 920140 with Config ID 799FD14E-A4515120. For each of these individual product family members a Vendor Declaration of Conformance is attached to this document, attesting that the product family member has been successfully tested for conformance by the vendor using the same firmware as the representative product.

Vendor		
Name	James Lyons	Date: 2026-09-18
Company	Orange Charger	Signature:
Department	Engineering	
Position	Head of Engineering	
Location	Menlo Park, CA	

Product Designation	Product Description	Photo
920160 Config ID: 799FD14E-A4515120	Orange EVSE for 60a branch circuit	

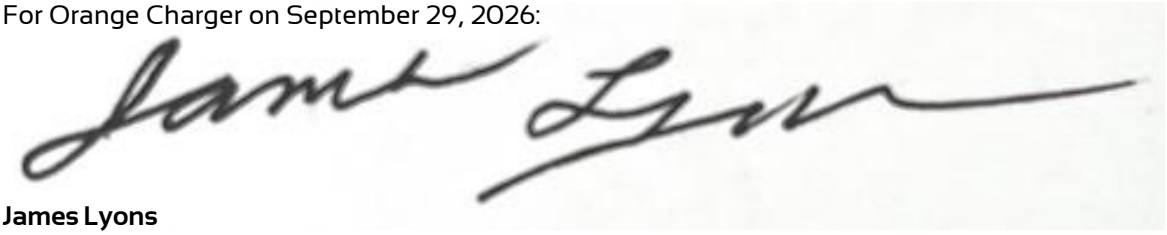
Vendor Declaration of Conformance

Product Type:	**Charging Station**
Product Designation:	**920160**
Firmware Version:	**6.7**
Test Date:	**September 18, 2026**
Config ID:	**799FD14E-A4515120**

The Vendor Orange Charger states that the above-mentioned product and software version combination successfully completed testing in conformance with the reference specification OCPP 2.0.1 (Edition 4 FINAL, 2025-12-03 including Errata 2026-06). The OCPP profiles and optional protocol features that were tested can be found in this Test Report.

This test report is only applicable to the product designation running the specified software version described above. On behalf of Orange Charger the undersigned declares that the OCPP conformance test was performed under his/her responsibility and that the test results were obtained by testing the above-mentioned product and software version combination using the OCPP Compliance Test Tool (OCTT) in a single uninterrupted test run without any manipulation. Note: it has not been independently verified that above-mentioned product was tested.

For Orange Charger on September 29, 2026:



James Lyons
Head of Engineering, Engineering, Menlo Park, CA

Test Result Summary for the Tested Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Not Tested	Support for Smart Charging, to control charging.
ISO 15118 Support	Not Tested	Support for ISO 15118 Smart Charging and Plug and Charge authorization.

Disclaimer: For the preparation of this Vendor Declaration, the Open Charge Alliance test tool has been used by the Vendor. The Open Charge Alliance has not been involved in the testing and or test results. Any liability of the Open Charge Alliance in respect of the tests and test results is expressly excluded. This test report 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 resulting from reliance on the results of this report.

Tested Firmware Image: 39fd2a825af9fc7aa0b9bc7a52441b93598229d3b095bd197ab97626071193b0b - OCTT Instance ID: e0dcfe0afdd2f78bf02cbca34dead4c1

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	No
HFS-2	Has a fixed cable	Yes
HFS-3	Has AC support	Yes
HFS-4	Has DC support	No
HFS-5	Has 1 phase support	Yes
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	No
HFS-8	No. EVSEs	1
HFS-9	Communication technology	WiFi
HFS-10	RFID readers	None
HFS-12	Number of displays	0

EVSE	Current	Phases	Connector	Type	Cable Type
1	AC	1	1	cType1	Fixed Cable



Tested Firmware Image: 39fd2a825af9fc7aa0b9bc7a52441b935982229d3b095bd197ab97626071936b0b - OCTT Instance ID: e0dcfe0afdd2f78bf02cbca34dead4c1

Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not. Please refer to part 5 of the OCPP specification for the list of optional features and the reference to the relevant use cases in part 2 of the OCPP specification.

Core		
ID	**Core Features**	**Supported / Present**
C-01	Support for offline authorization of transactions	No
C-02	Support for allowing Offline Authorization for Unknown Ids	No
C-03	Support for maximizing energy for invalid ids	No
C-04	Support to limit StatusNotifications	No
C-06	Authorization status after cable disconnected on EV side	
C-06.1	Support for maintaining authorization when cable disconnected on EV side	No
C-06.2	Support for not maintaining authorization when cable disconnected on EV side	Yes
C-07	Support for using a Master Pass for charging stations with UI	No
C-08	Support for using a Master Pass for charging stations without UI	Yes
C-09	Supported Transaction Start points	
C-09.1	Start transaction options - EVConnected	No
C-09.2	Start transaction options - Authorized	Yes
C-09.3	Start transaction options - DataSigned	No
C-09.4	Start transaction options - PowerPathClosed	No
C-09.5	Start transaction options - EnergyTransfer	No
C-09.6	Start transaction options - ParkingBayOccupancy	No
C-10	Supported Transaction Stop points	
C-10.1	Stop transaction options - EVConnected	Yes
C-10.2	Stop transaction options - Authorized	Yes
C-10.3	Stop transaction options - PowerPathClosed	No
C-10.4	Stop transaction options - EnergyTransfer	No
C-10.5	Stop transaction options - ParkingBayOccupancy	No
C-12	Unlocking of connector when cable disconnected on EV side	
C-12.1	Support for unlocking connector when cable disconnected on EV side	No
C-12.2	Support for not unlocking when cable disconnected on EV side	Yes
C-13	Support for Reset per EVSE	No

Tested Firmware Image: 39fd2a825af9fc7aa0b9bc7a52441b935982229d3b095bd197ab97626071193b0b - OCTT Instance ID: e0dcfe0afdd2f78bf02cbca34dead4c1

ID	Core Features	Supported / Present
C-14	Support for retrieving / deleting CustomerInformation - CustomerIdentifier	No
C-20	Allowing New Sessions Pending a FirmwareUpdate	No
C-21	Support for queuing all or only Transaction related messages until they are delivered to the CSMS	No
C-23	Supported time sources	Heartbeat
C-25	Support for setting a TimeOffset	No
C-26	Support for setting the TimeZone	No
C-28	Toggle sending clock aligned meter values when a transaction is ongoing / Idle	No
C-29	TriggerMessage	
C-29.1	Trigger message - MeterValues	Yes
C-29.2	Trigger message - TransactionEvent	Yes
C-29.3	Trigger message - LogStatusNotification	No
C-29.4	Trigger message - FirmwareStatusNotification	Yes
C-29.5	Trigger message - StatusNotification	Yes
C-29.6	Trigger message - BootNotification	Yes

ID	Authorization Options for Local Start	Tested
C-30	Authorization - using RFID ISO14443	No
C-31	Authorization - using RFID ISO15693	No
C-32	Authorization - using KeyCode	No
C-33	Authorization - using locally generated id	No
C-34	Authorization - MacAddress	No
C-35	Authorization - NoAuthorization	No

ID	Authorization Options for Local Stop	Tested
C-70	Authorization - using RFID ISO14443	No
C-71	Authorization - using RFID ISO15693	No
C-72	Authorization - using KeyCode	No
C-75	Authorization - NoAuthorization	No

ID	Authorization Options for Remote Start	Tested
C-36	Authorization - using RFID ISO14443	Yes
C-37	Authorization - using RFID ISO15693	No
C-38	Authorization - using centrally, in the CSMS generated id	No
C-39	Authorization - NoAuthorization	No

ID	Metervalues	Tested
C-40	Supported MeterValue Measurands	

Tested Firmware Image: 39fd2a825af9fc7aa0b9bc7a52441b935982229d3b095bd197ab97626071930b - OCTT Instance ID: e0dcfe0afdd2f78bf02cbca34dead4c1

ID	Metervalues	Tested
C-40.1	SampledTxStarted Measurands	Energy.Active.Import.Register
C-40.2	SampledTxUpdated Measurands	Energy.Active.Import.Register
C-40.3	SampledTxEnded Measurands	Energy.Active.Import.Register
C-40.4	AlignedData Measurands	Energy.Active.Import.Register
C-40.5	AlignedDataTxEnded Measurands	Energy.Active.Import.Register

ID	Cipher Suites	Supported / Present
C-41	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384

ID	Core Features	Supported / Present
C-42	Signed Metervalues	No
C-43	Install Firmware with ongoing transaction	No
C-47	Support for falling back to default OCPP reconnection mechanism when NetworkConnection profile connection has failed	No
C-48	Authorization of remote start	
C-48.1	Option for authorization in case of a remote start	Yes
C-48.2	Option for no authorization in case of a remote start	Yes
C-58	Option for disabling remote authorization	No
C-49	Authorization Cache	No
C-59	Option for disabling remote authorization for cached invalid idTokens	No
C-51	Configurable TxStartPoint	No
C-52	Configurable TxStopPoint	No
C-53	Support for lifetime cached token	No
C-54	Supported policies for replacing cached entries	No
C-56	Support for providing the SummaryInventory	No
C-57	Support for cancelling ongoing log file upload	No
C-60	Support for cancelling ongoing firmware update	No
C-61	Security Profile 1 - Unsecured Transport with Basic Authentication	No

ID	Reservations	Supported / Present
R-0	Support for Reservation	No
R-1	Support for reservations of connectorType	No
R-2	Support for reservation of unspecified EVSE	No
R-3	Support for disabling Reservations	No

Tested Firmware Image: 39fd2a825af9fc7aa0b9bc7a52441b93598229d3b095bd197ab976260719 3b0b - OCTT Instance ID: e0dcfe0afdd2f78bf02cbca34dead4c1

ID	Advanced Device Management	Supported / Present
DM-0	Support for Advanced Device Management	No
DM-3	Queue notifyEventRequest messages for specific severities	No

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	No
LA-1	Authorization list support	No
LA-3	Option for disabling remote authorization for invalid idTokens stored at the Local Authorization List	No

ID	Advanced User Interface	Supported / Present
UI-0	Support for Advanced User Interface	No
UI-1	Supported message priorities	
UI-1.1	AlwaysFront	No
UI-1.2	InFront	No
UI-1.3	NormalCycle	No
UI-2	Supported message formats	
UI-2.1	ASCII	No
UI-2.2	HTML	No
UI-2.3	URI	No
UI-2.4	UTF8	No

Advanced Security		
ID	Certification Profile: Advanced Security	Supported / Present
AS-2	Additional root certificate check mechanism implemented	No
AS-3	Update Charging Station Certificate - CertificateSignedRequest Timeout	No

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
AQ-1	Can the last CSMSRootCertificate be removed?	No
AQ-2	Does the Charging Station have a cable lock, which prevents the EV driver to connect the EV and EVSE before authorization?	No
AQ-3	Can the last ChargingStationCertificate be removed?	No

Tested Firmware Image: 39fd2a825af9fc7aa0b9bc7a52441b93598229d3b095bd197ab97626071 93b0b - OCTT Instance ID: e0dcfe0afdd2f78bf02cbca34dead4c1

ID	Additional Questions for Lab Testing	Answer
AQ-4	Is there at least one unsupported NumberOfPhases?	No
AQ-5	Does the Charging Station have at least one hardWired monitor?	No
AQ-6	Does the Charging Station have a pre-configured monitor?	No
AQ-7	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes
AQ-8	Does your Charging Station enforce a selection of EVSE prior to authorization?	No
AQ-9	Does your Charging Station support charging an EV using IEC 61851-1?	No
AQ-10	Does your Charging Station support setting a Delta monitor on the WriteOnly component.variable SecurityCtrlr.BasicAuthPassword?	No
AQ-11	Does your Charging Station support a combined charging station Certificate	No
AQ-18	Does your Charging Station have at least one connector with an mechanized locking mechanism on Charging Station side?	No

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	ItemsPerMessageGetReport	100
ORS-2	ItemsPerMessageGetVariables	100
ORS-3	ItemsPerMessageSetVariables	100
ORS-4	BytesPerMessageGetReport	4096
ORS-5	BytesPerMessageGetVariables	4096
ORS-6	BytesPerMessageSetVariables	4096
ORS-16	WebSocketPingInterval	30

ID	Security Related Settings	Value
ORS-17	Maximum CertificateEntries supported	4
ORS-18	MaxCertificateChainSize	10000

ID	Firmware Management Settings	Value
ORS-24	Supported file transfer protocols	HTTP HTTPS

Tested Firmware Image: 39fd2a825af9fc7aa0b9bc7a52441b93598229d3b095bd197ab97626071 93b0b - OCTT Instance ID: e0dcfe0afdd2f78bf02cbca34dead4c1

Test Cases

The following list contains all Test cases that are required for a full conformance test for a product that is defined as in the configuration in this document. This is the complete list of test cases for this configuration, each of these test cases has been passed using the Test System defined above. Please note that test cases that are not applicable for this configuration are left out of this list, so this is a subset of the test cases that are listed and described in part 5 and 6 of the OCPP specification .

Testcase	Certification Profile	Name	Result
TC_A_01_CS	Core	Basic Authentication - Valid username/password combination	PASS
TC_A_09_CS	Core	Update Charging Station Password for HTTP Basic Authentication - Accepted	PASS
TC_A_10_CS	Core	Update Charging Station Password for HTTP Basic Authentication - Rejected	PASS
TC_A_04_CS	Core	TLS - server-side certificate - Valid certificate	PASS
TC_A_05_CS	Core	TLS - server-side certificate - Invalid certificate	PASS
TC_A_06_CS	Core	TLS - server-side certificate - TLS version too low	PASS
TC_A_19_CS	Core	Upgrade Charging Station Security Profile - Accepted	PASS
TC_A_22_CS	Core	Upgrade Charging Station Security Profile - Downgrade security profile - Rejected	PASS
TC_B_01_CS	Core	Cold Boot Charging Station - Accepted	PASS
TC_B_02_CS	Core	Cold Boot Charging Station - Pending	PASS
TC_B_03_CS	Core	Cold Boot Charging Station - Rejected	PASS
TC_B_30_CS	Core	Cold Boot Charging Station - Pending/Rejected - SecurityError	PASS
TC_B_51_CS	Core	Status change during offline period - > Offline Threshold	PASS
TC_B_52_CS	Core	Status change during offline period - < Offline Threshold	PASS
TC_B_06_CS	Core	Get Variables - single value	PASS
TC_B_07_CS	Core	Get Variables - multiple values	PASS
TC_B_32_CS	Core	Get Variables - Unknown component	PASS
TC_B_33_CS	Core	Get Variables - Unknown variable	PASS
TC_B_34_CS	Core	Get Variables - Not supported attribute type	PASS
TC_B_09_CS	Core	Set Variables - single value	PASS
TC_B_10_CS	Core	Set Variables - multiple values	PASS
TC_B_35_CS	Core	Set Variables - Unknown component	PASS
TC_B_36_CS	Core	Set Variables - Unknown variable	PASS
TC_B_37_CS	Core	Set Variables - Not supported attribute type	PASS
TC_B_11_CS	Core	Set Variables - invalidly formatted values	PASS
TC_B_39_CS	Core	Set Variables - Read-only	PASS
TC_B_12_CS	Core	Get Base Report - ConfigurationInventory	PASS
TC_B_13_CS	Core	Get Base Report - FullInventory	PASS
TC_B_15_CS	Core	Get Base Report - Not Supported base report	PASS

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Testcase	Certification Profile	Name	Result
TC_B_53_CS	Core	Get Base Report - Test mandatory DM variables via FullInventory	PASS
TC_B_20_CS	Core	Reset Charging Station - Without ongoing transaction - OnIdle	PASS
TC_B_21_CS	Core	Reset Charging Station - With Ongoing Transaction - OnIdle	PASS
TC_B_22_CS	Core	Reset Charging Station - With Ongoing Transaction - Immediate	PASS
TC_B_23_CS	Core	Reset Charging Station - Unavailable persists reset	PASS
TC_B_28_CS	Core	Reset EVSE - Not Supported	PASS
TC_B_29_CS	Core	Reset EVSE - With ongoing transaction - Not Supported	PASS
TC_B_43_CS	Core	Set new NetworkConnectionProfile - Rejected	PASS
TC_B_45_CS	Core	Migrate to new ConnectionProfile - Success - Same CSMS Root	PASS
TC_B_46_CS	Core	Migrate to new ConnectionProfile - Fallback mechanism - Same CSMS Root	PASS
TC_B_50_CS	Core	Migrate to new ConnectionProfile - Success - New CSMS Root - New CSMS	PASS
TC_B_57_CS	Core	Network Reconnection - After connection loss	PASS
TC_E_13_CS	Core	Start transaction options - Authorized - Remote	PASS
TC_E_21_CS	Core	Stop transaction options - StopAuthorized - Remote	PASS
TC_E_39_CS	Core	Stop transaction options - Deauthorized - timeout	PASS
TC_E_41_CS	Core	Retry sending transaction message when failed - Max retry count reached	PASS
TC_E_42_CS	Core	Retry sending transaction message when failed - Success before reaching the max retry count	PASS
TC_E_50_CS	Core	Retry sending transaction message when failed - Max retry count reached - CallError	PASS
TC_E_51_CS	Core	Retry sending transaction message when failed - Success before reaching the max retry count - CallError	PASS
TC_E_40_CS	Core	Offline Behaviour - Connection loss during transaction	PASS
TC_E_28_CS	Core	Check Transaction status - TransactionId unknown	PASS
TC_E_29_CS	Core	Check Transaction status - Transaction with id ongoing - with message in queue	PASS
TC_E_30_CS	Core	Check Transaction status - Transaction with id ongoing - without message in queue	PASS
TC_E_31_CS	Core	Check Transaction status - Transaction with id ended - with message in queue	PASS

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Testcase	Certification Profile	Name	Result
TC_E_32_CS	Core	Check Transaction status - Transaction with id ended - without message in queue	PASS
TC_E_33_CS	Core	Check Transaction status - Without transactionId - with message in queue	PASS
TC_E_34_CS	Core	Check Transaction status - Without transactionId - without message in queue	PASS
TC_F_01_CS	Core	Remote start transaction - Cable plugin first	PASS
TC_F_02_CS	Core	Remote start transaction - Remote start first - AuthorizeRemoteStart is true	PASS
TC_F_03_CS	Core	Remote start transaction - Remote start first - AuthorizeRemoteStart is false	PASS
TC_F_04_CS	Core	Remote start transaction - Remote start first - Cable plugin timeout	PASS
TC_F_08_CS	Core	Remote stop transaction - Success	PASS
TC_F_09_CS	Core	Remote stop transaction - Rejected	PASS
TC_F_11_CS	Core	Trigger message - MeterValues - Specific EVSE	PASS
TC_F_12_CS	Core	Trigger message - MeterValues - All EVSE	PASS
TC_F_13_CS	Core	Trigger message - TransactionEvent - Specific EVSE	PASS
TC_F_14_CS	Core	Trigger message - TransactionEvent - All EVSE	PASS
TC_F_17_CS	Core	Trigger message - FirmwareStatusNotification - Specific EVSE not relevant	PASS
TC_F_18_CS	Core	Trigger message - FirmwareStatusNotification - Idle	PASS
TC_F_19_CS	Core	Trigger message - FirmwareStatusNotification - Downloading	PASS
TC_F_20_CS	Core	Trigger message - Heartbeat	PASS
TC_F_23_CS	Core	Trigger message - StatusNotification - Specific EVSE - Available	PASS
TC_F_24_CS	Core	Trigger message - StatusNotification - Specific EVSE - Occupied	PASS
TC_F_26_CS	Core	Trigger message - BootNotification - Rejected	PASS
TC_F_27_CS	Core	Trigger message - NotImplemented	PASS
TC_G_01_CS	Core	Connector status Notification - Available to Occupied	PASS
TC_G_02_CS	Core	Connector status Notification - Occupied to Available	PASS
TC_G_03_CS	Core	Change Availability EVSE - Operative to inoperative	PASS
TC_G_09_CS	Core	Change Availability EVSE - Operative to operative	PASS
TC_G_04_CS	Core	Change Availability EVSE - Inoperative to operative	PASS
TC_G_10_CS	Core	Change Availability EVSE - Inoperative to inoperative	PASS

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Testcase	Certification Profile	Name	Result
TC_G_11_CS	Core	Change Availability EVSE - With ongoing transaction	PASS
TC_G_18_CS	Core	Change Availability EVSE - state persists across reboot	PASS
TC_G_05_CS	Core	Change Availability Charging Station - Operative to inoperative	PASS
TC_G_12_CS	Core	Change Availability Charging Station - Operative to operative	PASS
TC_G_06_CS	Core	Change Availability Charging Station - Inoperative to operative	PASS
TC_G_13_CS	Core	Change Availability Charging Station - Inoperative to inoperative	PASS
TC_G_21_CS	Core	Change Availability Charging Station - state persists across reboot	PASS
TC_G_14_CS	Core	Change Availability Charging Station - With ongoing transaction	PASS
TC_G_07_CS	Core	Change Availability Connector - Operative to inoperative	PASS
TC_G_15_CS	Core	Change Availability Connector - Operative to operative	PASS
TC_G_08_CS	Core	Change Availability Connector - Inoperative to operative	PASS
TC_G_16_CS	Core	Change Availability Connector - Inoperative to inoperative	PASS
TC_G_17_CS	Core	Change Availability Connector - With ongoing transaction	PASS
TC_G_19_CS	Core	Change Availability Connector - state persists across reboot	PASS
TC_J_01_CS	Core	Clock-aligned Meter Values - No transaction ongoing	PASS
TC_J_02_CS	Core	Clock-aligned Meter Values - Transaction ongoing	PASS
TC_J_03_CS	Core	Clock-aligned Meter Values - EventType Ended	PASS
TC_J_07_CS	Core	Sampled Meter Values - EventType Started - EVSE known	PASS
TC_J_08_CS	Core	Sampled Meter Values - Context Transaction.Begin - EVSE not known	PASS
TC_J_09_CS	Core	Sampled Meter Values - EventType Updated	PASS
TC_J_10_CS	Core	Sampled Meter Values - EventType Ended	PASS
TC_K_38_CS	Core	Remote start transaction with charging profile - Ignore chargingProfile	PASS
TC_L_01_CS	Core	Secure Firmware Update - Installation successful	PASS
TC_L_02_CS	Core	Secure Firmware Update - InstallScheduled	PASS
TC_L_03_CS	Core	Secure Firmware Update - DownloadScheduled	PASS
TC_L_05_CS	Core	Secure Firmware Update - InvalidCertificate	PASS

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Testcase	Certification Profile	Name	Result
TC_L_06_CS	Core	Secure Firmware Update - InvalidSignature	PASS
TC_L_07_CS	Core	Secure Firmware Update - DownloadFailed	PASS
TC_L_08_CS	Core	Secure Firmware Update - InstallVerificationFailed or InstallationFailed	PASS
TC_L_11_CS	Core	Secure Firmware Update - Unable to cancel	PASS
TC_L_18_CS	Core	Secure Firmware Update - Missing firmware signing certificate and signature	PASS
TC_L_15_CS	Core	Secure Firmware Update - Unable to install firmware with ongoing transaction - AllowNewSessionsPendingFirmwareUpdate is false	PASS
TC_M_12_CS	Core	Retrieve certificates from Charging Station - CSMSRootCertificate	PASS
TC_M_13_CS	Core	Retrieve certificates from Charging Station - ManufacturerRootCertificate	PASS
TC_M_17_CS	Core	Retrieve certificates from Charging Station - CSMSRootCertificate & ManufacturerRootCertificate	PASS
TC_M_18_CS	Core	Retrieve certificates from Charging Station - All certificateTypes	PASS
TC_M_19_CS	Core	Retrieve certificates from Charging Station - No matching certificate found	PASS
TC_M_20_CS	Core	Delete a certificate from a Charging Station - Success	PASS
TC_M_22_CS	Core	Delete a certificate from a Charging Station - No matching certificate found	PASS
TC_M_01_CS	Core	Install CA certificate - CSMSRootCertificate	PASS
TC_M_02_CS	Core	Install CA certificate - ManufacturerRootCertificate	PASS
TC_M_07_CS	Core	Install CA certificate - Rejected - Certificate invalid	PASS
TC_N_25_CS	Core	Retrieve Log Information - Diagnostics Log - Success	PASS
TC_N_26_CS	Core	Retrieve Log Information - Diagnostics Log - Upload failed	PASS
TC_N_35_CS	Core	Retrieve Log Information - Security Log - Success	PASS
TC_N_32_CS	Core	Clear Customer Information - Clear and no report	PASS
TC_P_01_CS	Core	Data Transfer to the Charging Station - Rejected / Unknown VendorId / Unknown MessageId	PASS
TC_P_03_CS	Core	CustomData - Receive custom data	PASS
TC_A_07_CS	Advanced Security	TLS - Client-side certificate - valid certificate	PASS
TC_A_11_CS	Advanced Security	Update Charging Station Certificate by request of CSMS - Success - Charging Station Certificate	PASS
TC_A_14_CS	Advanced Security	Update Charging Station Certificate by request of CSMS - Invalid certificate	PASS

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Testcase	Certification Profile	Name	Result
TC_A_15_CS	Advanced Security	Update Charging Station Certificate by request of CSMS - SignCertificateRequest Rejected	PASS
TC_M_23_CS	Advanced Security	Delete a certificate from a Charging Station - Unable to delete the Charging Station Certificate	PASS

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