



**Certificate Holder:** COSTEL  
**Certificate Number:** F01.OCA.0016.1199.CS  
**Product Type:** Charging Station  
**Product Designation:** CEC-1021AC  
**Firmware Version:** V1.0.0  
**Certification Date:** February 10, 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 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 3 (Improved security for OCPP 1.6-J v1.3, 2022-02-17). 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	Korea Testing Certification institute January 27, 2026	KTC2025-00710_COSTEL _CEC-1021AC_OCPP -1.6-PICS-CS-3.0.3_260310

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 1.6 Certification

<b>Test laboratory:</b>	<b>Korea Testing Certification institute</b>
Location:	Gyeonggi-do, Korea
Test Report Reference:	KTC2025-00710
Test Location	KTC Lab, Gyeonggi-do, Korea
<b>Product Designation:</b>	<b>CEC-1021AC</b>
Vendor name:	COSTEL
Device Under Test:	Charging Station
Firmware Version:	V1.0.0
Config ID:	714F3DBE-69FB6CAC

### 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	Pass	Support for Smart Charging, to control charging.

## 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	No
HFS-4	Has DC support	Yes
HFS-5	Has 1 phase support	No
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	No
HFS-8	No. Connectors	2
HFS-9	Communication technology	Ethernet
HFS-10	RFID readers	Single
HFS-11	DC power level	100

Connector	Current	Phases	Type	Cable Type
1	DC		cCCSI	Fixed Cable
2	DC		cCCSI	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.

### Core

ID	Core Features	Supported / Present
C-01	Support for offline authorization of transactions	Yes
C-02	Support for allowing Offline Authorization for Unknown Ids	Yes
C-03	Support for maximizing energy for invalid ids	No
C-04	Authorization Cache	No
C-05	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 local start	Yes
C-08	Support for local stop	Yes
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	No
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09	Supported MeterValue Measurands		
C-09.1	MeterValuesSampled Data	SoC Current.Import Voltage Energy.Active.Import.Register	Energy.Active.Import.Register Current.Import Voltage SoC

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09.2	MeterValuesAligned Data	SoC Current.Import Voltage Energy.Active.Import.Register	Energy.Active.Import.Register Current.Import Voltage SoC

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	No

### Smart Charging

ID	Certification Profile: Smart Charging	Supported / Present
SC-1	Supported charging rate units	
SC-1.1	A	Yes
SC-1.2	W	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 CentralSystemRootCertificate can 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 ChargePointCertificate be removed?	No
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	No
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	No
AQ-6	Does your Charging Station support charging an EV using IEC 61851-1?	No
AQ-7	Reporting of StopTransaction after power loss	
AQ-7.1	Charge Point configured to report StopTransaction before going down.	No
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	Yes
AQ-9	Does your Charging Station have at least one connector with an mechanized locking mechanism on Charging Station side?	No
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

## 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	GetConfigurationMaxKeys	10
ORS-2	MeterValuesAlignedDataMaxLength	5
ORS-4	Minimum MeterValueSampleInterval supported	10
ORS-5	Maximum MeterValueSampleInterval supported	86400
ORS-6	Minimum HeartbeatInterval supported	10
ORS-7	Maximum HeartbeatInterval supported	86400
ORS-8	StopTransactionMaxMeterValues	1

ID	Limit / Setting	Value
ORS-11	WebSocketPingInterval	120
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	3
ORS-15	ChargingScheduleMaxPeriods	5
ORS-19	MaxChargingProfilesInstalled	3

ID	Firmware Management Settings	Value
ORS-16	Supported file transfer protocols	HTTP HTTPS FTP

## 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 timeout	10	seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
OCPP triggered function timeout	10	seconds	The timeout used for when waiting for an OCPP function with its corresponding request message. Messages to the DUT can be handled within this timeout. This value excludes firmware, diagnostics and rebooting
Transaction authorization time by RemoteStartTransaction	10	seconds	The time between the RemoteStartTransaction.req message and the corresponding StartTransaction.req. Only cases where the RemoteStartTransaction immediately results in an authorization followed by a StartTransaction.req are included.
Transaction authorization end time by RemoteStopTransaction	10	seconds	The time between the RemoteStopTransaction.req message and the corresponding StopTransaction.req. Only cases where the RemoteStopTransaction immediately results in an end of the authorization followed by a StopTransaction.req are included.

Name	Min Value	Max Value	Average Value	Unit
OCPP response timeout	0.28	2.40	0.55	seconds
OCPP triggered function timeout	0.32	0.85	0.54	seconds
Transaction authorization time by RemoteStartTransaction	4.14	4.14	4.14	seconds
Transaction authorization end time by RemoteStopTransaction	9.00	9.00	9.00	seconds

Communication technology used during performance measurement	Ethernet
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## Statement of Approval

Vendor		
Name	Hwang Dae Yeon	Date: 2026-02-10
Company	COSTEL	Signature:
Department	R&D Center	
Position	Principal Research Engineer	
Location	Gyeonggi-do, Korea	


Test Laboratory		
Name	Hye Min Kwon	Date: 2026-02-10
Name reviewer	SOL CHO	Signature:
Company	Korea Testing Certification institute	
Department	EV Charging&Power Transfer Center	
Position	Research engineer	
Location	Gyeonggi-do, Korea	

OCTT Version	Release_2025-11_v3
OCTT Instance ID	Oe2f65a9747856acf86effe09b501107
Firmware image hash	6c7912d4b1e4fc42c136259be74b720f4462e7ddf9a1a8786cace80aefad32f9

## Product Family Members Overview

The table below lists the OCPP product family members for the Representative Product CEC-IO21AC with Config ID 714F3DBE-69FB6CAC. 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	Hwang Dae Yeon	Date: 2026-02-10
Company	COSTEL	Signature:
Department	R&D Center	
Position	Principal Research Engineer	
Location	Gyeonggi-do, Korea	

Product Designation	Product Description	Photo
CEC-IO21AR  Config ID: 714F3DBE-AC12322C	This model differs from the base model in the type of card reader used. The base model is equipped with an RFID / credit card reader, whereas this model uses an RFID card reader only.	

# Vendor Declaration of Conformance

**Product Type:** Charging Station  
**Product Designation:** CEC-1021AR  
**Firmware Version:** V1.0.0  
**Test Date:** February 4, 2026  
**Config ID:** 714F3DBE-AC12322C

The Vendor COSTEL states that the above-mentioned product and software version combination successfully completed testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 3 (Improved security for OCPP 1.6-J v1.3, 2022-02-17). 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 COSTEL 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 COSTEL on February 5, 2026:



**Hwang Dae-Yeon**  
Principal Research Engineer, R&D Center, Seongnam city

## 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	Pass	Support for Smart Charging, to control charging.

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: 6c7912d4b1e4fc42c136259be74b720f4462e7ddf9a1a8786cace80aefad32f9 - OCTT Instance ID: 98b3d912083343958a4b326e5004c298

# Hardware Feature Set

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HFS-5	Has 1 phase support	No
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	No
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HFS-9	Communication technology	Ethernet
HFS-10	RFID readers	Single
HFS-11	DC power level	100

Connector	Current	Phases	Type	Cable Type
1	DC		cCCSI	Fixed Cable
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## Optional Features

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### Core

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C-01	Support for offline authorization of transactions	Yes
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C-03	Support for maximizing energy for invalid ids	No
C-04	Authorization Cache	No
C-05	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 local start	Yes
C-08	Support for local stop	Yes
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	No
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested
C-09	Supported MeterValue Measurands	
C-09.1	MeterValuesSampled Data	Current.Import Energy.Active.Import.Register Voltage SoC
C-09.2	MeterValuesAligned Data	Current.Import Energy.Active.Import.Register Voltage SoC

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	No

## Smart Charging

ID	Certification Profile: Smart Charging	Supported / Present
SC-1	Supported charging rate units	
SC-1.1	A	Yes
SC-1.2	W	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 CentralSystemRootCertificate can 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 ChargePointCertificate be removed?	No
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	No
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	No
AQ-6	Does your Charging Station support charging an EV using IEC 61851-1?	No
AQ-7	Reporting of StopTransaction after power loss	
AQ-7.1	Charge Point configured to report StopTransaction before going down.	No
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	Yes
AQ-9	Does your Charging Station have at least one connector with an mechanized locking mechanism on Charging Station side?	No
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

## 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	GetConfigurationMaxKeys	10
ORS-2	MeterValuesAlignedDataMaxLength	5
ORS-4	Minimum MeterValueSampleInterval supported	10
ORS-5	Maximum MeterValueSampleInterval supported	86400
ORS-6	Minimum HeartbeatInterval supported	10
ORS-7	Maximum HeartbeatInterval supported	86400
ORS-8	StopTransactionMaxMeterValues	1
ORS-11	WebSocketPingInterval	120
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	3
ORS-15	ChargingScheduleMaxPeriods	5
ORS-19	MaxChargingProfilesInstalled	3

ID	Firmware Management Settings	Value
ORS-16	Supported file transfer protocols	HTTP HTTPS FTP

## 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 the Test Case Document and Test Procedure & Test Plan document.

Testcase	Certification Profile	Name	Result
TC_001_CS	Core	Cold Boot Charge Point	PASS
TC_002_CS	Core	Cold Boot Charge Point - Pending	PASS
TC_003_CS	Core	Regular Charging Session - Plugin First	PASS
TC_004_1_CS	Core	Regular Charging Session Identification First	PASS
TC_004_2_CS	Core	Regular Charging Session Identification First - ConnectionTimeOut	PASS
TC_068_CS	Core	Stop transaction - IdTag in StopTransaction matches IdTag in StartTransaction	PASS
TC_069_CS	Core	Stop transaction - ParentIdTag in StopTransaction matches ParentIdTag in StartTransaction	PASS
TC_005_2_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = false	PASS
TC_010_CS	Core	Remote Start Charging Session Cable Plugged in First	PASS
TC_011_1_CS	Core	Remote Start Charging Session Remote Start First	PASS
TC_011_2_CS	Core	Remote Start Charging Session Time Out	PASS
TC_012_CS	Core	Remote Stop Charging Session	PASS
TC_013_CS	Core	Hard Reset Without transaction	PASS
TC_014_CS	Core	Soft Reset Without Transaction	PASS
TC_015_CS	Core	Hard Reset With Transaction	PASS
TC_016_CS	Core	Soft Reset With Transaction	PASS
TC_017_2_CS	Core	Unlock connector - no charging session running	PASS
TC_018_2_CS	Core	Unlock Connector - With Charging Session	PASS
TC_019_CS	Core	Retrieve configuration	PASS
TC_021_CS	Core	Change/set Configuration	PASS
TC_070_CS	Core	Sampled Meter Values	PASS
TC_071_CS	Core	Clock-aligned Meter Values	PASS
TC_026_CS	Core	Remote Start Charging Session Rejected	PASS
TC_028_CS	Core	Remote Stop Transaction Rejected	PASS
TC_031_CS	Core	Unlock Connector Unknown Connector	PASS
TC_032_2_CS	Core	Power failure boot charging point-configured to stop transaction	PASS
TC_034_CS	Core	Power Failure with Unavailable Status	PASS
TC_036_CS	Core	Connection Loss During Transaction	PASS

Tested Firmware Image: 6c7912d4b1e4fc42c136259be74b720f4462e7ddf99a1a8786cace80aefad32f9 - OCTT Instance ID: 98b3d912083343958a4b326e5004c298

Testcase	Certification Profile	Name	Result
TC_037_1_CS	Core	Offline Start Transaction - Valid IdTag	PASS
TC_037_2_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = false	PASS
TC_037_3_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = true	PASS
TC_038_CS	Core	Offline Stop Transaction	PASS
TC_039_CS	Core	Offline Transaction	PASS
TC_040_1_CS	Core	Configuration key - NotSupported	PASS
TC_040_2_CS	Core	Configuratioin key - Invalid value	PASS
TC_042_2_CS	Core	Get Local List Version	PASS
TC_043_CS	Core	Send Local Authorization List	PASS
TC_043_2_CS	Core	Send Local Authorization List - VersionMismatch	PASS
TC_045_1_CS	Core	Get Diagnostics	PASS
TC_045_2_CS	Core	Get Diagnostics - Upload Failed	PASS
TC_073_CS	Core	Update Charge Point Password for HTTP Basic Authentication	PASS
TC_075_1_CS	Core	Install a certificate on the Charge Point - ManufacturerRootCertificate	PASS
TC_075_2_CS	Core	Install a certificate on the Charge Point - CentralSystemRootCertificate	PASS
TC_076_CS	Core	Delete a specific certificate from the Charge Point	PASS
TC_078_CS	Core	Invalid CentralSystemCertificate Security Event	PASS
TC_079_CS	Core	Get Security Log	PASS
TC_080_CS	Core	Secure Firmware Update	PASS
TC_081_CS	Core	Secure Firmware Update - Invalid Signature	PASS
TC_083_CS	Core	Upgrade security profile	PASS
TC_084_CS	Core	Downgrade security profile - Rejected	PASS
TC_085_CS	Core	Basic Authentication - Valid username/password combination	PASS
TC_086_CS	Core	TLS - server-side certificate - Valid certificate	PASS
TC_046_1_CS	Core	Reservation of a Connector - Local start transaction	PASS
TC_046_2_CS	Core	Reservation of a Connector - Remote start transaction	PASS
TC_047_CS	Core	Reservation of a Connector - Expire	PASS
TC_048_2_CS	Core	Reservation of a Connector - Occupied	PASS
TC_048_3_CS	Core	Reservation of a Connector - Unavailable	PASS
TC_051_CS	Core	Cancel Reservation	PASS
TC_052_CS	Core	Cancel Reservation - Rejected	PASS
TC_062_CS	Core	Data Transfer to a Charge Point	PASS
TC_054_CS	Core	Trigger Message	PASS
TC_055_CS	Core	Trigger Message - Rejected	PASS
TC_056_CS	Smart Charging	Central Smart Charging - TxDefaultProfile	PASS

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Testcase	Certification Profile	Name	Result
TC_057_CS	Smart Charging	Central Smart Charging - TxProfile	PASS
TC_058_1_CS	Smart Charging	Central Smart Charging - No ongoing transaction	PASS
TC_058_2_CS	Smart Charging	Central Smart Charging - Wrong transactionId	PASS
TC_082_CS	Smart Charging	Central Smart Charging - TxDefaultProfile - with ongoing transaction	PASS
TC_066_CS	Smart Charging	Get Composite Schedule	PASS
TC_067_CS	Smart Charging	Clear Charging Profile	PASS
TC_072_CS	Smart Charging	Stacking Charging Profiles	PASS
TC_059_CS	Smart Charging	Remote Start Transaction with Charging Profile	PASS
TC_060_CS	Smart Charging	Remote Start Transaction with Charging Profile - Rejected	PASS
TC_074_CS	Advanced Security	Update Charge Point Certificate by request of Central System	PASS
TC_077_CS	Advanced Security	Invalid ChargePointCertificate Security Event	PASS
TC_087_CS	Advanced Security	TLS - Client-side certificate - valid certificate	PASS

Tested Firmware Image: 6c7912d4b1e4fc42c136259be74b720f4462e7ddf9a1a8786cace80aefad32f9 - OCTT Instance ID: 98b3d912083343958a4b326e5004c298