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# Disclaimer

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## Version History

Version	Date	Description
2024-11	2024-11-28	Includes new errata for Part 5 and Part 6 of OCPP 2.0.1 Edition 3
2024-09	2024-09-25	Includes new errata for Part 4, Part 5 and Part 6 of OCPP 2.0.1 Edition 3
2024-06	2024-06-27	Includes new errata for Part 5 and Part 6.

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# Scope

This document contains errata on the OCPP 2.0.1 documentation. These errata have to be read as an addition to the release of OCPP 2.0.1 Edition 3.

The errata do not affect any schemas of OCPP messages. Certain errata do contain changes to requirements or even new requirements, but only in cases where a requirement contains an obvious error and would not or could not be implemented literally. New requirements are only added when they were already implicitly there. These changes have been discussed in or were proposed by the Technology Working Group of the Open Charge Alliance.

The appendices of the OCPP specification can be updated without requiring a new OCPP release. This mainly concerns the components and variables of the OCPP device model, which can be extended with new components or variables, as long as they are optional.

## Terminology and Conventions

**Bold:** when needed to clarify differences, bold text might be used.

The errata entries are sorted by page number of the affected section of the specification document. When an errata entry affects multiple parts of the specification, then the various changes are grouped together with subsections referring to the pages affected by those changes.

This is version 2024-11 of the errata. The errata of this version are marked with "(2024-11)" in the section title.

Where possible the issue number by which it was reported, is added in square brackets at the end of the section title, e.g. "[349]". For retrieval of the issue in the issue tracking system prefix the number with "OCPP20M", like "[OCPP20M-349]".

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## 0. Part 0

*Currently no new errata for OCPP 2.0.1 Edition 3 part 0.*

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# 1. Part 1

*Currently no new errata for OCPP 2.0.1 Edition 3 part 1.*

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## 2. Part 2

*Currently no new errata for OCPP 2.0.1 Edition 3 part 2.*



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## 3. Part 3

*Currently no new errata for OCPP 2.0.1 part 3.*

## 4. Part 4

### 4.1. Page 10 - (2024-09) - 4.1.4. Message ID

Change the following text in paragraph 4.1.4:

Old text	The message ID serves to identify a request. A message ID for any CALL message MUST be different from all message IDs previously used by the same sender for any other CALL messages on any WebSocket connection using the same unique Charging Station identifier. <del>This also applies to retries of messages.</del>
New text	The message ID serves to identify a request. A message ID for any CALL message MUST be different from all message IDs previously used by the same sender for any other CALL messages on any WebSocket connection using the same unique Charging Station identifier. The message ID for a retried message (e.g. when no response was received within timeout) MAY be identical to the message ID of the original message.

## 5. Part 5

### 5.1. Page 9 - (2024-11) - Optional feature list for charging station - Change name R-3

The specified name of feature R-3 is not correct. It should reflect the ability to disable reservations.

Old	R-3	Reservation support (ReservationEnabled)	Configuration Variable for H01
New	R-3	Support for disabling Reservations (ReservationEnabled)	Configuration Variable for H01

### 5.2. Page 19 - (2024-09) - TC\_E\_04\_CS Updated condition for test case to exclude it for MacAddress and ISO 15118 PnC

This test case cannot be performed with the local authorization option MacAddress or ISO 15118 PnC.

		Local start transaction - Authorization first					
Old	TC_E_04	Success	C	M	Applicable if one or more of the local start authorization options is implemented.	C-30 - C-35 or ISO 15118 support	Authorization options for local start
New	TC_E_04	Success	C	M	Applicable if one or more of the local start authorization options is implemented.	(C-30 or C-31 or C-32 or C-33 or C-35)	Authorization options for local start

### 5.3. Page 22 - (2024-09) - TC\_E\_17\_CS Updated condition for test case to correctly specify the applicable TxStopPoint combinations

This testcase allows for a limited set of TxStopPoint combinations, otherwise it is not applicable.

		Local start transaction - Authorization first					
Old	TC_E_17	Deauthorized - EV side disconnect	C	M	- TxStopPoint can either be ReadOnly with a subset of the values or have a valueList of supported values, that contains a subset. This testcase is applicable if the value Authorized or PowerPathClosed is a supported value. - StopTxOnEVSideDisconnect needs to ReadWrite or ReadOnly with value true	(C-10.2 or C-10.3) and C-06.2 and AQ-9	Supported Transaction Stop points

		Local start transaction - Authorization first					
New	TC_E_17	Deauthorized - EV side disconnect	C	M	This testcase is applicable if the value Authorized is a supported value for TxStopPoint AND EVConnected, PowerPathClosed and EnergyTransfer must not be set as TxStopPoint AND StopTxOnEVSideDisconnect true must be a supported value.	C-10.2 and C-06.2 and AQ-9 and NOT (NOT C-52 AND (10.1 OR C-10.3 OR 10.4))	Supported Transaction Stop points

## 5.4. Page 40 - (2024-11) - TC\_H\_13\_CS Updated invalid condition for test case

The condition should have been reversed.

Old	TC_H_13	Rejected	C		Depending on configuration variable ReservationNonSpecificEVSE	R-2	Support reservations of unspecified EVSE
New	TC_H_13	Rejected	C		Depending on the Charging Station not supporting the configuration variable ReservationNonSpecificEVSE	NOT R-2	Support reservations of unspecified EVSE

## 5.5. Page 48 - (2024-06) - Added additional questions to appendix

The following additional questions are added for CSMSs:

Id	Additional questions for lab testing
AQ-3	Does your CSMS support Absolute values for the following Charging Profiles:
AQ-3.1	<i>TxDefaultProfile</i>
AQ-3.2	<i>ChargingStationMaxProfile</i>
AQ-4	Does your CSMS support Recurring values for the following Charging Profiles:
AQ-4.1	<i>TxDefaultProfile</i>
AQ-4.2	<i>ChargingStationMaxProfile</i>

# 6. Part 6

## 6.1. General

### 6.1.1. Page XX - (2024-11) - All testcases - Updated table structure of all testcases

The table structure of all testcases have been updated. This has been done for multiple reasons:

- It improves readability by providing more space for the main steps.
- It decreases the chance of testcase tables being broken, resulting in missing steps at the bottom of a testcase.
- It makes it easier for the Technical Editors to update testcases.

## 6.2. Charging Station

### 6.2.1. Page 7 - (2024-11) - TC\_A\_05\_CS - Successfully reconnecting after every failed connection attempt

It is needed to reconnect after every (intended) failed connection, otherwise the retryBackoffTime may double itself several time, resulting in a very large number that may exceed the configured timeouts.

Table 1. Test Case Id: TC\_A\_05\_CS

Test case name	TLS - server-side certificate - Invalid certificate
Test case Id	TC_A_05_CS
Use case Id(s)	A00
Requirement(s)	A00.FR.309,A00.FR.310,A00.FR.311,A00.FR.412,A00.FR.413,A00.FR.414
System under test	Charging Station
Description	The CSMS uses a server-side certificate to identify itself to the Charging Station, when using security profile 2 or 3.
Purpose	To verify whether the Charging Station is able to terminate the connection when the received server certificate is invalid.
Prerequisite(s)	- The charging station supports security profile 2 and/or 3 - The active NetworkConnectionProfile uses either security profile 2 OR 3. <Removed>
Before (Preparations)	<b>Configuration State:</b> OCPPCommCtrlr.NetworkConfigurationPriority only contains <Value from ActiveNetworkProfile>
	<b>Memory State:</b> N/a
	<b>Reusable State(s):</b> N/a

Test case name	TLS - server-side certificate - Invalid certificate	
Main (Test scenario)	Charging Station	CSMS
	1. The OCTT aborts the connection with the Charging Station.	
	2. The Charging Station initiates a TLS handshake and sends a Client Hello to the OCTT.	3. The OCTT responds with a Server Hello With a <Configured <b>valid</b> server certificate>
	Note(s) : - The OCTT will use this as an indication of the time it takes the Charging Station to reconnect.	
	4. The OCTT aborts the connection with the Charging Station.	
	5. The Charging Station initiates a TLS handshake and sends a Client Hello to the OCTT.	6. The OCTT responds with a Server Hello With a <Configured <b>invalid</b> server certificate>
	7. The Charging Station deems the server certificate invalid and terminates the connection.	
	Note : The OCTT will wait two times the measured reconnection time from step 3, before switching the server certificate back to the valid server certificate. The reason for this is that the OCTT is not always able to detect a failed connection attempt.	
	8. The Charging Station initiates a TLS handshake and sends a Client Hello to the OCTT.	9. The OCTT responds with a Server Hello With a <Configured <b>valid</b> server certificate>
	Note(s) : - The OCTT will accept the connection to prevent doubling of the RetryBackOffWaitMinimum.	
Tool validations	10 The Charging Station sends a SecurityEventNotificationRequest	11 The OCTT responds with a SecurityEventNotificationResponse
	Note(s) : - Steps 4 to 11 are repeated per configured invalid server certificate. - In case default certificates are being used, the OCTT will use three different invalid server certificates; "Not signed by installed Root certificate", "Expired", "CommonName that does not equal the FQDN of the server". - In case custom certificates are being used, the OCTT will loop through all certificates configured at the 'CSMS Keystore Invalid'.	
	* Step 11: Message: SecurityEventNotificationRequest - type must be InvalidCsmsCertificate  Post scenario validations: N/a	

## 6.2.2. Page 22 - (2024-09) - TC\_A\_19\_CS - Fixed references to ConfigurationSlot [020-4762]

Test case name	Upgrade Charging Station Security Profile - Accepted
Test case Id	TC_A_19_CS

Test case name	Upgrade Charging Station Security Profile - Accepted	
Main (Test scenario)	Charging Station	CSMS
	2. The Charging Station responds with a <b>SetNetworkProfileResponse</b>	1. The OCTT sends a <b>SetNetworkProfileRequest</b> with <b>configurationSlot</b> is <Configured configurationSlot> or <Configured configurationSlot2> depending on which one is already in use - <b>connectionData.messageTimeout</b> <Configured messageTimeout> - <b>connectionData.ocppCsmsUrl</b> <Configured ocppCsmsUrl> - <b>connectionData.ocppInterface</b> <Configured ocppInterface> - <b>connectionData.ocppVersion</b> OCPP20 - <b>connectionData.securityProfile</b> <Configured securityProfile + 1>
	4. The Charging Station responds with a <b>SetVariablesResponse</b>	3. The OCTT sends a <b>SetVariablesRequest</b> with <b>variable.name</b> is "NetworkConfigurationPriority" <b>component.name</b> is "OCPPCommCtrlr" <b>attributeValue</b> is "<Configured configurationSlot2>,<Configured configurationSlot>"
	...	...
Tool validations	<p>* Step 2: Message <b>SetNetworkProfileResponse</b> - <b>status</b> Accepted</p> <p>* Step 4: Message <b>SetVariablesResponse</b> - <b>setVariableResult[0].attributeStatus</b> Accepted OR RebootRequired</p> <p>* Step 6: Message <b>ResetResponse</b> - <b>status</b> Accepted</p> <p>* Step 11: Message <b>GetVariablesResponse</b> - <b>getVariableResult[0].attributeValue</b> &lt;Configured securityProfile + 1&gt;</p> <p>* Step 13: Message <b>GetVariablesResponse</b> - <b>getVariableResult[0].attributeValue</b> Does not contain the configurationSlot with the previous (lower) security profile</p> <p><b>Post scenario validations:</b> - N/a</p>	

### 6.2.3. Page 56 - (2024-09) - TC\_B\_20\_CS - Added check on omitting evseld [4390]

Test case name	Reset Charging Station - Without ongoing transaction - OnIdle	
Test case Id	TC_B_20_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	
Tool validations	* Step 1: Message <b>ResetRequest</b> - <b>evseld</b> must be omitted	
	* Step 4: Message <b>BootNotificationResponse</b> - <b>status</b> <i>Accepted</i>	
	<b>Post scenario validations:</b> - N/a	

#### 6.2.4. Page 57 - (2024-09) - TC\_B\_21\_CS - Added check on omitting evseld [4390]

Test case name	Reset Charging Station - With Ongoing Transaction - OnIdle	
Test case Id	TC_B_21_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	
Tool validations	* Step 1: Message <b>ResetRequest</b> - <b>type</b> <i>OnIdle</i> - <b>evseld</b> must be omitted	
	* Step 8: Message <b>BootNotificationResponse</b> - <b>status</b> <i>Accepted</i>	
	<b>Post scenario validations:</b> - N/a	

#### 6.2.5. Page 58 - (2024-09) - TC\_B\_22\_CS - Added check on omitting evseld [4390]

Test case name	Reset Charging Station - With Ongoing Transaction - Immediate	
Test case Id	TC_B_22_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	
Tool validations	* Step 1: Message <b>ResetRequest</b> - <b>type</b> <i>Immediate</i> - <b>evseld</b> is omitted	
	* Step 6: Message <b>BootNotificationResponse</b> - <b>status</b> <i>Accepted</i>	
	<b>Post scenario validations:</b> - N/a	

#### 6.2.6. Page 138 - (2024-09) - TC\_C\_47\_CS - StoppedReason must be validated in Ended event [020-4467]

Test case name	Stop Transaction with a Master Pass - With UI - All transactions	
Test case Id	TC_C_47_CS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...



Test case name	Stop Transaction with a Master Pass - With UI - All transactions
Tool validations	<p>* Step 1:  Message <b>AuthorizeRequest</b>  - <b>idToken.idToken</b> &lt;Configured masterpass_idtoken_idtoken&gt;  - <b>idToken.type</b> &lt;Configured masterpass_idtoken_type&gt;</p> <p>* Step 3:  Message <b>TransactionEventRequest</b>  - <b>transactionInfo.stoppedReason</b> MasterPass (in last TransactionEventRequest)  - <b>idToken</b> omit or  - <b>idToken.idToken</b> &lt;Configured masterpass_idtoken_idtoken&gt; and  - <b>idToken.type</b> &lt;Configured masterpass_idtoken_type&gt; (once per stopped transaction)  - <b>eventType</b> Ended (in last TransactionEventRequest)</p> <p>Post scenario validations:  - N/a</p>

### 6.2.7. Page 146 - (2024-11) - TC\_C\_26\_CS - Allow StatusNotification status = Occupied

The connector status change should be reported after the connection is restored. The Charging Station should be allowed to report StatusNotificationRequest status = Occupied (or NotifyEventRequest).

Test case name	Set Variable Monitoring - Periodic event	
Test case Id	TC_C_26_CS	
Use case Id(s)	C15 & C13	
Requirement(s)	C15.FR.02,C15.FR.06,C15.FR.08,C13.FR.04	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...
	1. The Charging Station notifies the CSMS about the current state of all connectors.	2. The OCTT responds accordingly.
	...	...
	3. Execute Reusable State <i>StopAuthorized</i>	
	4. Execute Reusable State <i>EVConnectedPostSession</i>	
	5. Execute Reusable State <i>EVDisconnected</i>	
Tool validations	* Step 1: Message: <b>StatusNotificationRequest</b> - <b>connectorStatus</b> must be <i>Occupied</i> Message: <b>NotifyEventRequest</b> - <b>eventData[0].trigger</b> must be <i>Delta</i> - <b>eventData[0].actualValue</b> must be <i>Occupied</i> - <b>eventData[0].component.name</b> must be <i>Connector</i> - <b>eventData[0].variable.name</b> must be <i>AvailabilityState</i> ...	
	Post scenario validations: N/A	

### 6.2.8. Page 151 - (2024-09) - TC\_C\_54\_CS - removed reusable state IdTokenCached [O20-3510]

Test case name	Authorization using Contract Certificates 15118 - Offline - ContractValidationOffline is true
Test case Id	TC_C_54_CS
...	

Test case name	Authorization using Contract Certificates 15118 - Offline - ContractValidationOffline is true	
Before (Preparations)	Configuration State: ...	
	Memory State: <i>CertificateInstalled</i> for certificateType V2GRootCertificate <i>CertificateInstalled</i> for certificateType MORootCertificate <i>IdTokenCached</i> for <Configured valid IdToken fields> (If implemented) <i>IdTokenLocalAuthList</i> for <Configured valid IdToken fields> (If implemented)	
	Reusable State(s): N/a	
Main (Test scenario)	Charging Station	CSMS
	...	...
...		

### 6.2.9. Page 153 - (2024-09) - TC\_C\_55\_CS - removed reusable state IdTokenCached [O20-3510]

Test case name	Authorization using Contract Certificates 15118 - Offline - ContractValidationOffline is false	
Test case Id	TC_C_55_CS	
...		
Before (Preparations)	Configuration State: ...	
	Memory State: <i>CertificateInstalled</i> for certificateType V2GRootCertificate <i>CertificateInstalled</i> for certificateType MORootCertificate <i>IdTokenCached</i> for <Configured valid IdToken fields> (If implemented) <i>IdTokenLocalAuthList</i> for <Configured valid IdToken fields> (If implemented)	
	Reusable State(s): N/a	
	Main (Test scenario)	Charging Station
	...	...
...		

### 6.2.10. Page 174 - (2024-09) - TC\_E\_17\_CS -Updated prerequisite for test case to correctly specify the applicable TxStopPoint combinations

This testcase allows for a limited set of TxStopPoint combinations, otherwise it is not applicable.

Test case name	Stop transaction options - Deauthorized - EV side disconnect
Test case Id	TC_E_17_CS
...	
Old: Prerequisite(s)	- The Charging Station does NOT have the following configuration; The mutability of <b>TxStopPoint</b> is <i>ReadOnly</i> AND the value <i>Authorized</i> OR <i>PowerPathClosed</i> is NOT set OR ( <i>EnergyTransfer</i> OR <i>DataSigned</i> OR <i>EVConnected</i> is set). - If the mutability of <b>TxStopPoint</b> is <i>_ReadWrite</i> , then the value <i>Authorized</i> OR <i>PowerPathClosed</i> must be supported.
New: Prerequisite(s)	This testcase is applicable if the value <i>Authorized</i> is a supported value for <i>TxStopPoint</i> AND <i>EVConnected</i> , <i>PowerPathClosed</i> and <i>EnergyTransfer</i> must not be set as <i>TxStopPoint</i> AND <i>StopTxOnEVSideDisconnect</i> true must be a supported value.

## 6.2.11. Page 176 - (2024-11) - TC\_E\_39\_CS - Missing StatusNotificationRequest/NotifyEventRequest

Test case name	Stop transaction options - Deauthorized - timeout	
Test case Id	TC_E_39_CS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...
	Manual Action: Connect the EV and EVSE on EV side.	
	Manual Action: Connect the EV and EVSE on EVSE side.	
	3. The Charging Station notifies the CSMS about the status change of the connector.	4. The OCTT responds accordingly.
	...	...
Tool validations	<p>* Step 1:</p> <p>Message: <b>TransactionEventRequest</b></p> <p>- <b>triggerReason</b> must be <i>EVConnectTimeout</i></p> <p>- <b>eventType</b> must be <i>Updated</i> if TxStartPoint is <i>ParkingBayOccupancy</i>, else <i>Ended</i></p> <p>- <b>transactionInfo.stoppedReason</b> must be <i>Timeout</i></p> <p>* Step 3:</p> <p>Message: <b>StatusNotificationRequest</b></p> <p>- <b>connectorStatus</b> must be <i>Occupied</i></p> <p>Message: <b>NotifyEventRequest</b></p> <p>- <b>eventData[0].trigger</b> must be <i>Delta</i></p> <p>- <b>eventData[0].actualValue</b> must be <i>Occupied</i></p> <p>- <b>eventData[0].component.name</b> must be <i>Connector</i></p> <p>- <b>eventData[0].variable.name</b> must be <i>AvailabilityState</i></p> <p>* Step 5:</p> <p>Message: <b>TransactionEventRequest</b></p> <p>- <b>triggerReason</b> can only be <i>CablePluggedIn</i></p> <p>- <b>transactionInfo.chargingState</b> should not be <i>Charging</i></p> <p>- <b>eventType</b> must be <i>Updated</i> if TxStartPoint is <i>ParkingBayOccupancy</i>, else <i>Ended</i></p> <p>Post scenario validations:</p> <p>N/a</p>	

## 6.2.12. Page 185 - (2024-09) - TC\_E\_35\_CS - StoppedReason must be validated in Ended event [O20-4467]

Test case name	Stop transaction options - PowerPathClosed - Remote stop	
Test case Id	TC_E_35_CS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...
Tool validations	* Step 2: Message: <b>RequestStopTransactionResponse</b> - <b>status</b> must be <i>Accepted</i> * Step 3: Message: <b>TransactionEventRequest</b> - <b>triggerReason</b> must be <i>RemoteStop</i> (for one of the TransactionEventRequests) - <b>transactionInfo.stoppedReason</b> must be <i>Remote</i> (for the last TransactionEventRequest) - <b>eventType</b> must be <i>Ended</i> (for the last TransactionEventRequest)	
	Post scenario validations: N/a	

## 6.2.13. Page 214 - (2024-06) TC\_E\_43\_CS Move reusable state TransactionEventsInQueueEnded to Before [768]

State TransactionEventsInQueueEnded is moved to Before stage.

Test Case Id: TC\_E\_43\_CS

Test case name	Offline Behaviour - Transaction during offline period	
Test case Id	TC_E_43_CS	
Use case Id(s)	E12	
Requirement(s)	E12.FR.01,E12.FR.02,E12.FR.06	
System under test	Charging Station	
Description	The Charging Station queues TransactionEvent messages to inform the CSMS that a transaction occurred while the Charging Station was Offline.	
Purpose	To verify if the Charging Station is able to queue TransactionEvent messages while it was offline.	
Prerequisite(s)	The Charging Station supports authorization methods other than NoAuthorization	
Before (Preparations)	<b>Configuration State:</b> N/a	
	<b>Memory State:</b> N/a	
	<b>Reusable State(s):</b> <b>State is</b> TransactionEventsInQueueEnded	
Main (Test scenario)	Charging Station	CSMS
	<del>1. Execute Reusable State TransactionEventsInQueueEnded</del>	
	1. The Charging Stations sends a <b>TransactionEventRequest</b>  <u>Note(s):</u> - The Charging Station will empty its Transaction message queue. This will contain one or more TransactionEventRequest messages	2. The OCTT responds with a <b>TransactionEventResponse</b>
Tool validations	* Step 1: All messages: <b>TransactionEventRequest</b> - <b>offline</b> must be <i>true</i> One of the messages: <b>TransactionEventRequest</b> - <b>eventType</b> <i>Started</i> One of the messages: <b>TransactionEventRequest</b> - <b>eventType</b> <i>Ended</i>	
	<b>Post scenario validations:</b> N/a	

**NOTE** If the Charging Station supports ISO15118, this testcase needs to be executed using EIM.

## 6.2.14. Page 221 - (2024-06) TC\_F\_04\_CS Made mandatory in part 5, but prerequisite in part 6 was not updated

Removed Prerequisite(s):

Old	The Charging Station supports TxCtrlr.TxStartPoint ParkingBayOccupancy OR Authorized.
New	N/a

## 6.2.15. Page 295 - (2024-09) - TC\_J\_XX\_CS Meter Values

Meter values cannot have *location* = "EV", unless it is for measurand "SoC".

For all test cases in J add the following Post scenario validation:

...	...
Tool validations	Post scenario validations: Message: <b>MeterValuesRequest/TransactionEventRequest</b> - ... - None of the provided <b>sampledValue</b> s shall have <b>location</b> = EV, except when <b>measurand</b> = S

## 6.2.16. Page 297 - (2024-09) - TC\_J\_02\_CS Clock-aligned Meter Values

Meter values must be reported for all phases.

Test case name	Clock-aligned Meter Values - Transaction ongoing	
Test case Id	TC_J_02_CS	
Use case Id(s)	J01	
...		
Before (Preparations)	Configuration State: AlignedDataInterval is <Configured clock-aligned Meter Values interval> AlignedDataSendDuringIdle is false (If implemented) RegisterValuesWithoutPhases is false (If implemented)	
	Memory State: N/a	
	Reusable State(s): State is <i>EnergyTransferStarted</i>	
Main (Test scenario)	Charging Station	CSMS
	...	
Tool validations	Note: The following steps do not need to be sent in a specific order. * Step 1: Message: <b>MeterValuesRequest</b> - <b>meterValue[0].sampledValue[0].context</b> must be <i>Sample.Clock</i> - <b>meterValue[0].sampledValue</b> must contain <An element per configured measurand at the AlignedDataMeasurands for the number of phases reported in <b>SupplyPhases</b> . The measurand field may be omitted when the measurand is "Energy.Active.Import.Register"> * Step 3: Message: <b>TransactionEventRequest</b> - <b>triggerReason</b> must be <i>MeterValueClock</i> - <b>metervalue[0].sampledValue[0].context</b> must be <i>Sample.Clock</i> - <b>metervalue[0].sampledValue</b> must contain <An element per configured measurand at the AlignedDataMeasurands for the number of phases reported in <b>SupplyPhases</b> . The measurand field may be omitted when the measurand is "Energy.Active.Import.Register"> Post scenario validations: ...	

## 6.2.17. Page 306 - (2024-06) - TC\_J\_10\_CS - Remove reference to non-existing requirements [4697]

Test case name	Sampled Meter Values - EventType Ended
Test case Id	TC_J_10_CS
Use case Id(s)	J02 & (E06,E07,E08,E09,E10,E12)

Test case name	Sampled Meter Values - EventType Ended
Requirement(s)	J02.FR.01,J02.FR.02,J02.FR.03,J02.FR.04,J02.FR.10, E06.FR.11, <del>E06.FR.17</del> , E07.FR.08, <del>E07.FR.13</del> ,E08.FR.09,E09.FR.05,E10.FR.04,E12.FR.07
...	

## 6.2.18. Page 345 - (2024-06) TC\_K\_35\_CS Get Charging Profile - Evseld > 0 + chargingProfilePurpose [773]

Change initial charging state from "N/A" to:

	Charging State: State is <i>EnergyTransferStarted</i>
--	--

## 6.2.19. Page 362 - (2024-09) - TC\_K\_56\_CS Removed expecting triggerReason=ChargingRateChanged [776]

A trigger reason ChargingStateChange must only be sent, when an external actor (not CSMS) changes the charging rate. Therefore, removed the check that triggerReason=ChargingStateChange is sent. Also added a check that the EV charging schedule fits within the given charging profile.

Test case name	Charging with load leveling based on High Level Communication - Offline	
Test case Id	TC_K_56_CS	
...		
Main (Test scenario)	Charging Station	CSMS 6. The OCTT responds with a TransactionEventResponse.
	...	
Tool validations	<p>* Step 3: (Message: <b>NotifyEVChargingScheduleRequest</b>)  <b>evseld</b> &lt;Configured evseld&gt;  <b>chargingSchedule.chargingSchedule[0].chargingRateUnit</b> &lt;Configured chargingRateUnit&gt;  <b>chargingSchedule.chargingSchedule[0].chargingSchedulePeriod[0].startPeriod</b> 0  If &lt;Configured chargingRateUnit&gt; is W:  <b>chargingSchedule.chargingSchedule[0].chargingSchedulePeriod[0].limit</b> &lt;= 8000  Else:  <b>chargingSchedule.chargingSchedule[0].chargingSchedulePeriod[0].limit</b> &lt;= 8 * Step 5:  Message: <b>TransactionEventRequest</b>  <del>triggerReason</del> must be <i>ChargingStateChange</i>  <del>transactionInfo.chargingState</del> must be <i>Charging</i>  <del>offline</del> true</p> <p>Post scenario validations: N/a</p>	

## 6.2.20. Page 468 - (2024-06) TC\_N\_23\_CS Offline Notification - OfflineMonitoringEventQueuingSeverity set higher than severityLevel of the monitor [772]

Test case name	Offline Notification - OfflineMonitoringEventQueuingSeverity set higher than severityLevel of the monitor
Test case Id	TC_N_23_CS
Use case Id(s)	N07
Requirement(s)	N07.FR.04
System under test	Charging Station
Description	Charging Station does not queue event notifications when offline.
Purpose	To test that Charging Station does not queue event notifications with a severity higher than OfflineMonitoringEventQueuingSeverity.

Test case name	Offline Notification - OfflineMonitoringEventQueuingSeverity set higher than severityLevel of the monitor	
Prerequisite(s)	Charging Station is online at start of test for configuration. CS has implemented device model monitoring and MonitoringCtrlr::Enabled = true.	
Before (Preparations)	<b>Configuration State:</b> SetConfiguration with: - <b>component.name</b> = "MonitoringCtrlr" - <b>variable.name</b> = "OfflineQueuingSeverity" - <b>attributeValue</b> = <Configured Severity>	
	<b>Memory State:</b> Charging Station has custom or predefined monitors on variable AvailabilityState of Configured EVSE and Configured ConnectorId with severity = <Configured severity> + 1	
	<b>Reusable State(s):</b> N/a	
Main (Test scenario)	<b>Charging Station</b>	<b>CSMS</b>
	<u>Manual Action:</u> Connect the EV and EVSE.	
	1. The Charging Station notifies the CSMS about the status change of the connector.	2. The OCTT responds accordingly.
	<u>Note(s):</u> Step 3, 4, 5, 6, 7, and 8 need to be executed when <b>TxStartPoint</b> contains EVConnected OR ParkingBayOccupancy	
	3. The Charging Station sends a <b>TransactionEventRequest</b>	4. The OCTT responds with a <b>TransactionEventResponse</b>
	<u>Manual Action:</u> Take Charging Station offline.	
	<u>Manual Action:</u> Disconnect the EV and EVSE.	
	<u>Manual Action:</u> Connect the EV and EVSE.	
	<u>Note(s):</u> The tool will now wait for <Configured Transaction Duration> seconds	
	<u>Manual Action:</u> Bring Charging Station back online.	
	5. The Charging Station sends a <b>TransactionEventRequest</b>	6. The OCTT responds with a <b>TransactionEventResponse</b>
	7. The Charging Station sends a <b>TransactionEventRequest</b>	8. The OCTT responds with a <b>TransactionEventResponse</b>
	<u>Note(s):</u> The CS shall not send a NotifyEventRequest for AvailabilityState of EVSE and Connector. A StatusNotification may still be received.	

Test case name	Offline Notification - OfflineMonitoringEventQueuingSeverity set higher than severityLevel of the monitor
Tool validations	<p>* Step 1: <b>(Optional:)</b>  Message: <b>StatusNotificationRequest</b>  - <b>evseld</b> &lt;configured evseld&gt;  - <b>connectorId</b> &lt;configured connectorId&gt;  - <b>connectorStatus</b> must be <i>Occupied</i>  <b>(Required, but can be combined into one NotifyEventRequest:)</b>  Message: <b>NotifyEventRequest</b>  - <b>eventData[0].trigger</b> must be <i>Delta</i>  - <b>eventData[0].actualValue</b> must be <i>Occupied</i>  - <b>eventData[0].component.name</b> must be <i>Connector</i>  - <b>eventData[0].component.evse.id</b> must be <i>Configured EVSE</i>  - <b>eventData[0].component.evse.connectorId</b> must be <i>Configured ConnectorId</i>  - <b>eventData[0].variable.name</b> must be <i>AvailabilityState</i>  Message: <b>NotifyEventRequest</b>  - <b>eventData[0].trigger</b> must be <i>Delta</i>  - <b>eventData[0].actualValue</b> must be <i>Occupied</i>  - <b>eventData[0].component.name</b> must be <i>EVSE</i>  - <b>eventData[0].component.evse.id</b> must be <i>Configured EVSE</i>  - <b>eventData[0].variable.name</b> must be <i>AvailabilityState</i></p> <p>* Step 3:  Message: <b>TransactionEventRequest</b>  - <b>triggerReason</b> must be <i>CablePluggedIn</i>  - <b>transactionInfo.chargingState</b> must be <i>EVConnected</i></p> <p>* Step 5:  Message: <b>TransactionEventRequest</b>  - <b>triggerReason</b> must be <i>EVCommunicationLost</i>  - <b>transactionInfo.chargingState</b> must be <i>Idle</i></p> <p>* Step 7:  Message: <b>TransactionEventRequest</b>  - <b>triggerReason</b> must be <i>CablePluggedIn</i>  - <b>transactionInfo.chargingState</b> must be <i>EVConnected</i></p> <p><b>Post scenario validations:</b>  N/A</p>

## 6.2.21. Page 470 - (2024-09) - TC\_N\_24\_CS - Referring to incorrect use case and requirements [O20-4793]

Test case name	Set Variable Monitoring - Periodic event	
Test case Id	TC_N_24_CS	
Use case Id(s)	N04, N08	
Requirement(s)	N04.FR.01, N04.FR.08, N08.FR.05 and N08.FR.06	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...
Tool validations	...	
	Post scenario validations: N/A	



## 6.2.22. Page 493 - (2024-09) - TC\_N\_41\_CS - Set Variable Monitoring - Return to FactoryDefault

Moved preconfigured monitor to Prerequisite.

Test case name	Set Variable Monitoring - Return to FactoryDefault	
Test case Id	TC_N_41_CS	
...		
Prerequisite(s)	Charging Station supports Monitoring and a preconfigured monitor exists with id <Preconfigured monitor id> for component EVSE and variable AvailabilityState and type = Delta and severity = <Preconfigured severity>	
Before (Preparations)	<b>Configuration state:</b> N/a	
	<b>Memory state:</b> a preconfigured monitor exists with id <Preconfigured monitor id> for component EVSE and variable AvailabilityState and type = Delta and severity = <Preconfigured severity>	
	<b>Charging State:</b> N/a	
Main (Test scenario)	Charging Station	CSMS
	...	

## 6.2.23. Page 482 - (2024-09) - TC\_N\_63\_CS - Clear Customer Information - Clear and report - customerCertificate

Test case design top stop transaction was not correct for an ISO 15118 session.

Test case name	Clear Customer Information - Clear and report - customerCertificate		
Test case Id	TC_N_63_CS		
...			
Before (Preparations)	<b>Configuration State:</b> N/a		
	<b>Memory State:</b> N/a		
	<b>Charging State:</b> Execute <b>Reusable State</b> EVConnectedPreSession		
	Execute <b>Reusable State</b> Authorized15118		
	Execute <b>Reusable State</b> ParkingBayUnoccupied		

Test case name	Clear Customer Information - Clear and report - customerCertificate	
Main (Test scenario)	Charging Station	CSMS
	<b>Note :</b> The Charging Station receives a SessionStopReq(Terminate) message from the EV to finish the transaction.	
	2. The Charging Station responds with a <b>CustomerInformationResponse</b>	1. The OCTT sends a <b>CustomerInformationRequest</b> with - <b>report</b> <i>true</i> AND - <b>clear</b> <i>true</i> AND - <b>customerCertificate</b> <i>customer information used in the transaction</i>
	3. The Charging Station sends a <b>NotifyCustomerInformationRequest</b>	4. The OCTT responds with a <b>NotifyCustomerInformationResponse</b>
	<b>Note(s):</b> - If <b>tbc</b> is <i>True</i> at Step 3 then step 3 and 4 will be repeated	
	6. The Charging Station responds with a <b>CustomerInformationResponse</b>	5. The OCTT sends a <b>CustomerInformationRequest</b> with - <b>report</b> <i>true</i> AND - <b>clear</b> <i>false</i> AND - <b>customerCertificate</b> <i>customer information used in the transaction</i>
	7. The Charging Station sends a <b>NotifyCustomerInformationRequest</b>	8. The OCTT responds with a <b>NotifyCustomerInformationResponse</b>
	<b>Note(s):</b> - If <b>tbc</b> is <i>True</i> at Step 7 then step 7 and 8 will be repeated	
Tool validations	...	

## 6.2.24. Page 495 - (2024-11) - TC\_N\_43\_CS - Remove incorrect tool validation StatusInfo

Test case name	Set Variable Monitoring - First SetMonitoringData and third SetMonitoringData are valid, but the second contains an out of range value
Test case Id	TC_N_43_CS

Tool validations
<p>* Step 2:</p> <p>Message: <b>SetVariableMonitoringResponse</b> with (in arbitrary order):</p> <pre> setMonitoringResult[1] = { - status = Accepted - type = UpperThreshold - statusInfo is absent or statusInfo.reasonCode = "NoError" } setMonitoringResult[2] = { - status = Rejected - type = Delta - statusInfo is absent or statusInfo.reasonCode = "NoError" (Removed) } setMonitoringResult[3] = { - status = Accepted - type = LowerThreshold - statusInfo is absent or statusInfo.reasonCode = "NoError" } </pre>

Tool validations
Post scenario validations: - N/a

## 6.2.25. Page 555 - (2024-11) - Remove StatusNotificationRequest from Authorized reusable state Main B steps

Main B (Test scenario)	
Charging Station	CSMS
2. The Charging Station responds with a <b>RequestStartTransactionResponse</b>	1. The OCTT sends a <b>RequestStartTransactionRequest</b> with <b>idToken.idToken</b> <Configured valid_idtoken_idtoken> <b>idToken.type</b> <Configured valid_idtoken_type> <b>evseld</b> <Configured evseld>
3. The Charging Station sends an <b>AuthorizeRequest</b>  <u>Note(s):</u> - This step needs to be executed when <b>AuthCtrlr.AuthorizeRemoteStart</b> is true, unless ( <b>AuthEnabled</b> is implemented with mutability <b>ReadOnly</b> AND the value is set to false) OR the <b>idToken</b> is cached. In case the <b>idToken</b> is used for a reservation, sending the <b>AuthorizeRequest</b> message is optional.	4. The OCTT responds with an <b>AuthorizeResponse</b> with <b>idTokenInfo.status</b> Accepted
<Removed>	
5. The Charging Station sends a <b>TransactionEventRequest</b>  <u>Note(s):</u> - This step needs to be executed when <b>TxStartPoint</b> contains Authorized OR the transaction already started. So in the case <b>TxStartPoint</b> contains <b>ParkingBayOccupancy</b> or ( <b>EVConnected</b> , in the case this testcase was initiated from state <b>EVConnectedPreSession</b> .)	6. The OCTT responds with a <b>TransactionEventResponse</b>  <u>Note(s):</u> - The first <b>TransactionEventRequest</b> sent after authorization contains the <b>idToken</b> field. The <b>TransactionEventResponse</b> of this request message contains <b>idTokenInfo</b> with <b>status</b> Accepted

## 6.2.26. Page 575 - (2024-09) - Reusable state RenewChargingStationCertificate expects a reconnection [784]

If a valid certificate is installed, then charging station must use it. This involves reconnecting to set up a new TLS with the new certificate. If the charging station does not do so automatically, then OCTT will force it by sending a Reset command.

State	RenewChargingStationCertificate
System under test	Charging Station
Description	The ChargingStationCertificate is renewed using A02/A03
...	

State	RenewChargingStationCertificate	
Main (Test scenario)	Charging Station	CSMS
	2. The Charging Station responds with a <b>TriggerMessageResponse</b>	1. The OCTT sends a <b>TriggerMessageRequest</b> With <b>requestedMessage</b> <i>SignChargingStationCertificate</i>
	3 The Charging Station sends a <b>SignCertificateRequest</b>	4. The OCTT responds with a <b>SignCertificateResponse</b> With <b>status</b> <i>Accepted</i>
	6. The Charging Station responds with a <b>CertificateSignedResponse</b>	5. The OCTT sends a <b>CertificateSignedRequest</b> With <b>certificateChain</b> <Certificate generated from the received CSR from step 3 and signed by the provided CSMS Root certificate> <b>certificateType</b> <i>ChargingStationCertificate</i>
	If the certificate is valid, then Charging Station should reconnect with the new certificate. OCTT waits some time for a reconnection, and if that does not occur, will send a Reset command to Charging Station to force a reconnection.	
	7. The Charging Station reconnects.	
	8 . If the reconnect was forced by a Reset: The Charging Station sends a <b>BootNotificationRequest</b>	9. OCTT responds with a <b>BootNotificationResponse</b> .
Tool validations	<p>* Step 2: Message: <b>TriggerMessageResponse</b> - <b>status</b> must be <i>Accepted</i></p> <p>* Step 3: Message: <b>SignCertificateRequest</b> - <b>csr</b> must contain &lt;An CSR that meets the following requirements: <i>When using RSA or DSA the key must be at least 2048 bits long.</i> <i>and when using elliptic curve cryptography the key must be at least 224 bits long.</i> <i>The received CSR must be transmitted as described in RFC 2986 and then encoded in Privacy-Enhanced Mail (PEM) format.&gt;</i></p> <p>* Step 6: Message: <b>CertificateSignedResponse</b> - <b>status</b> must be <i>Accepted</i></p> <p>* Step 7: Charging Station must reconnect with new certificate.</p>	
	<b>Post scenario validations:</b> N/a	

## 6.3. CSMS

### 6.3.1. Page 596 - (2024-09) - TC\_A\_14\_CSMS - Update Charging Station Certificate by request of CSMS - Invalid certificate

SecurityEventNotification(InvalidChargingStationCertificate) has been added.

Test case name	Update Charging Station Certificate by request of CSMS - Invalid certificate	
Test case Id	TC_A_14_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	2. The OCTT responds with a <b>TriggerMessageResponse</b> With <b>status</b> <i>Accepted</i>	1. The CSMS sends a <b>TriggerMessageRequest</b>
	3 The OCTT sends a <b>SignCertificateRequest</b> With <b>csr</b> <Configured CSR> <b>certificateType</b> <i>ChargingStationCertificate</i>	4. The CSMS responds with a <b>SignCertificateResponse</b>
	6. The OCTT responds with a <b>CertificateSignedResponse</b> With <b>status</b> <i>Rejected</i>	5. The CSMS sends a <b>CertificateSignedRequest</b>
	7. The OCTT sends a <b>SecurityEventNotificationRequest</b> with <b>type</b> = <i>InvalidChargingStationCertificate</i>	8. The CSMS responds with a <b>SecurityEventNotificationResponse</b>
Tool validations	...	

### 6.3.2. Page 597 - (2024-09) - TC\_A\_19\_CSMS - Removed validation of OcCppCsmsUrl [020-4355]

Validation of OcCppCsmsUrl has been removed, because in some implementations the URL changes with the security profile.

Test case name	Upgrade Charging Station Security Profile - Accepted	
Test case Id	TC_A_19_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...
Tool validations	<div>* Step 1: Message <b>SetNetworkProfileRequest</b> - <b>connectionData.messageTimeout</b> &lt;Configured messageTimeout&gt; - <del><b>connectionData.ocppCsmsUrl</b> &lt;Configured ocppCsmsUrl&gt;</del> - <b>connectionData.ocppInterface</b> &lt;Configured ocppInterface&gt; - <b>connectionData.ocppTransport</b> JSON - <b>connectionData.ocppVersion</b> OCPP20 - <b>connectionData.securityProfile</b> &lt;Configured securityProfile + 1&gt; * Step 3: Message <b>SetVariablesRequest</b> <b>setVariableData</b>: - <b>variable.name</b> = "NetworkConfigurationPriority" - <b>component.name</b> = "OCPPCommCtrlr" - <b>attributeValue</b> = &lt;contains configurationSlot provided at step 1&gt;</div> <div>Post scenario validations: - N/a</div>	

### 6.3.3. Page 637 - (2024-11) - TC\_C\_50\_CSMS - Changed reference to configured valid idToken to a specific eMAID idToken

For ISO 15118 plug & charge the Charging Station always needs to use an eMAID idToken, which equals the CN of the configured contract certificate.

Test case name	Authorization using Contract Certificates 15118 - Online - Local contract certificate validation - Accepted
Test case Id	TC_C_50_CSMS
Use case Id(s)	C07
Requirement(s)	C07.FR.04
System under test	CSMS
Description	The Charging Station is able to authorize with contract certificates when it supports ISO 15118.
Purpose	To verify if the CSMS is able to validate the certificate hash data and the provided eMAID.
Prerequisite(s)	<ul style="list-style-type: none"><li>- The configured eMAID is known by the CSMS as valid.</li><li>- The configured contract certificate is valid.</li><li>- The CN of the configured contract certificate equals the configured eMAID.</li><li>- iso15118CertificateHashData has a responder URL that points to an OCSP service for OCTT.</li><li>- CSMS does not have a cached OCSP response for the contract certificate.</li></ul>

Before (Preparations)
Configuration State: N/a
Memory State: N/a
Reusable State(s): State is <i>EVConnectedPreSession</i>

Main (Test scenario)	
Charging Station	CSMS
1. The OCTT sends an <b>AuthorizeRequest</b> With <b>idToken.idToken</b> <i>&lt;Configured eMAID&gt;</i> <b>idToken.type</b> <i>eMAID</i> <b>iso15118CertificateHashData</b> contains <i>&lt;hashes from configured (V2G) certificate chain</i>	...
...	

### 6.3.4. Page 639 - (2024-09) - TC\_C\_52\_CSMS - TC does not use <Configured contract\_certificate>

OCTT already has a keystore that contains the certificate. The pdf should not mention the <Configured contract\_certificate> as the testcase does not use it

Test case name	Authorization using Contract Certificates 15118 - Online - Central contract certificate validation - Accepted
Test case Id	TC_C_52_CSMS
...	
Prerequisite(s)	<ul style="list-style-type: none"><li>- The configured eMAID is known by the CSMS as valid.</li><li>- The <del>configured</del> contract certificate is signed by the configured V2GRoot or MORoot certificate at the CSMS.</li><li>- Contract certificate has a responder URL that points to an OCSP service for OCTT. - CSMS does not have a cached OCSP response for the contract certificate.</li></ul>
...	

Test case name	Authorization using Contract Certificates 15118 - Online - Central contract certificate validation - Accepted	
Main (Test scenario)	Charging Station	CSMS
	1. The OCTT sends an <b>AuthorizeRequest</b> With <b>idToken.idToken</b> <Configured <i>valid_idtoken_idtoken</i> > <b>idToken.type</b> <Configured <i>valid_idtoken_type</i> > <b>iso15118CertificateHashData</b> is absent <b>certificate</b> <i>from keystore</i>	2. The CSMS sends an OCSP request to responder URL of <b>certificate</b> to check validity
...		

### 6.3.5. Page 712 - (2024-09) - TC\_I\_01\_CSMS - Show EV Driver running total cost

Test case name	Show EV Driver running total cost during charging - costUpdatedRequest	
Test case Id	TC_I_01_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	
	<p>7. The OCTT sends a <b>TransactionEventRequest</b> With <b>triggerReason</b> is <i>MeterValuePeriodic</i> <b>eventType</b> is <i>Updated</i> <b>timestamp</b> &lt;<i>The intervals between the timestamps of the received Meter Value messages equals the configured sampled Meter Values interval</i>&gt;. <b>sampledValue.context</b> is <i>Sample.Periodic</i></p> <p><u>Note(s):</u> - <i>This step will be executed every _&lt;Configured sampled Meter Values interval&gt;</i> - <i>The OCTT will end the testcase after two MeterValues.</i></p>	<p>8. The CSMS responds with a <b>TransactionEventResponse</b></p>
	...	
Tool validations	...	
	<p>Post scenario validations:</p> <p>- N/a</p>	

### 6.3.6. Page 728 - (2024-09) - TC\_K\_03\_CSMS - Not requiring validFrom/To fields in charging profile [O20-4592] and chargingProfileKind must be Absolute [O20-4591]

Test case name	Set Charging Profile - ChargingStationMaxProfile	
Test case Id	TC_K_03_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...

Test case name	Set Charging Profile - ChargingStationMaxProfile
Tool validations	<p>* Step 1:  Message <b>SetChargingProfileRequest</b>  <b>evseld 0</b> AND  <b>chargingProfile.stackLevel</b> &lt;Configured stackLevel&gt; AND  <b>chargingProfile.chargingProfilePurpose</b> ChargingStationMaxProfile_ AND  <b>chargingProfile.chargingProfileKind</b> Absolute <del>OR Relative</del>  <b>chargingProfile.chargingSchedule.chargingRateUnit</b> &lt;Configured ChargingRateUnit&gt;  <b>chargingProfile.chargingSchedule.duration</b> &lt;Configured duration&gt;  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.startPeriod</b> 0  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.limit</b> 8.0 or 8000.0  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases</b> &lt;Configured numberPhases&gt;  where &lt;Configured numberPhases&gt; not 3 OR  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases</b> &lt;Configured numberPhases&gt;  or &lt;omit&gt; where &lt;Configured numberPhases&gt; 3  <del><b>chargingProfile.validFrom</b> &lt;Not omitted&gt;</del>  <del><b>chargingProfile.validTo</b> &lt;Not omitted&gt;</del>  <b>chargingProfile.chargingSchedule.startSchedule</b> &lt;Not omitted&gt;</p> <p>Post scenario validations:  - N/a</p>

### 6.3.7. Page 733 - (2024-09) - TC\_K\_10\_CSMS - Not requiring validFrom/To fields in charging profile [O20-4592]

Test case name	Set Charging Profile - TxDefaultProfile - All EVSE	
Test case Id	TC_K_10_CSMS	
...		
Main (Test scenario)	Charging Station	CSMS
	...	...
Tool validations	<p>* Step 1:  Message <b>SetChargingProfileRequest</b>  <b>evseld 0</b> AND  <b>chargingProfile.stackLevel</b> &lt;Configured stackLevel&gt; AND  <b>chargingProfile.chargingProfilePurpose</b> TxDefaultProfile AND  <b>chargingProfile.chargingProfileKind</b> Absolute AND  <del><b>chargingProfile.validFrom</b> &lt;Not omitted&gt;</del> AND  <del><b>chargingProfile.validTo</b> &lt;Not omitted&gt;</del> AND  <b>chargingProfile.chargingSchedule.startSchedule</b> &lt;Not omitted&gt; AND  <b>chargingProfile.chargingSchedule.chargingRateUnit</b> &lt;Configured ChargingRateUnit&gt; AND  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.startPeriod</b> 0 AND  <b>chargingProfile.chargingSchedule.duration</b> &lt;Configured duration&gt;  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.limit</b> 6.0 or 6000.0 AND  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases</b> &lt;Configured numberPhases&gt;  where &lt;Configured numberPhases&gt; not 3 OR  <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases</b> &lt;Configured numberPhases&gt;  or &lt;omit&gt; where &lt;Configured numberPhases&gt; 3</p> <p>Post scenario validations:  - N/a</p>	

### 6.3.8. Page 734 - (2024-09) - TC\_K\_15\_CSMS - Not requiring validFrom/To fields in charging profile [O20-4592]

Test case name	Set Charging Profile - Not Supported
Test case Id	TC_K_15_CSMS



Test case name	Set Charging Profile - Not Supported	
...		
Main (Test scenario)	Charging Station	CSMS
	2. The OCTT responds with RPC Framework: CALLERROR: NotSupported.	1. The CSMS sends a <b>SetChargingProfileRequest</b> with: <b>evseld</b> <Configured evseld> AND <b>chargingProfile.stackLevel</b> <Configured stackLevel> AND <b>chargingProfile.chargingProfilePurpose</b> TxDefaultProfile AND <b>chargingProfile.chargingProfileKind</b> Absolute AND <del><b>chargingProfile.validFrom</b> &lt;Not omitted&gt; AND</del> <del><b>chargingProfile.validTo</b> &lt;Not omitted&gt; AND</del> <b>chargingProfile.chargingSchedule.startSchedule</b> <Not omitted> AND <b>chargingProfile.chargingSchedule.chargingRateUnit</b> <Configured ChargingRateUnit> AND <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.startPeriod</b> 0 AND <b>chargingProfile.chargingSchedule.duration</b> <Configured duration> <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.limit</b> 6.0 or 6000.0 AND <b>chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases</b> <Configured numberPhases>
Tool validations	...	

### 6.3.9. Page 753 - (2024-09) - TC\_K\_55\_CSMS, TC\_K\_57\_CSMS, TC\_K\_58\_CSMS, TC\_K\_59\_CSMS Removed triggerReason = ChargingRateChanged [776]

A trigger reason ChargingStateChange must only be sent, when an external actor (not CSMS) changes the charging rate. Therefore, removed the sending of a triggerReason=ChargingStateChange by OCTT. This does not affect tool validations, but it was incorrect behavior of OCTT.

The step that sends a TransactionEventRequest with triggerReason=ChargingRateChanged has been removed from:

- TC\_K\_55\_CSMS
- TC\_K\_57\_CSMS
- TC\_K\_58\_CSMS
- TC\_K\_59\_CSMS

### 6.3.10. Page 760 - (2024-11) - TC\_K\_70\_CSMS - Updated tool validation chargingProfiles and added preparation step.

We require a CSMS to install multiple ChargingProfiles with the same purpose and for the same connectorId with a different stackLevel. However there are CSMSs that do the stacking themselves and are unable to do this. Therefore it was decided to use different purposes instead.

Test case name	Set Charging Profile - Multiple Profiles
Test case Id	TC_K_70_CSMS
...	
Before (Preparations)	...
	Charging State: State is <b>EnergyTransferStarted</b>

Test case name	Set Charging Profile - Multiple Profiles	
Main (Test scenario)	Charging Station	CSMS
	2. The OCTT responds with a <b>SetChargingProfileResponse</b> with <b>status Accepted</b>	1. The CSMS sends a <b>SetChargingProfileRequest</b> with <b>chargingProfilePurpose TxDefaultProfile</b>
	4. The OCTT responds with a <b>SetChargingProfileResponse</b> with <b>status Accepted</b>	3. The CSMS sends a <b>SetChargingProfileRequest</b> with <b>chargingProfilePurpose ChargingStationMaxProfile</b>
Tool validations	<b>* Step 1:</b> Message <b>SetChargingProfileRequest</b> <b>chargingProfile.chargingProfilePurpose TxDefaultProfile</b>	
	<b>* Step 3:</b> Message <b>SetChargingProfileRequest</b> <b>chargingProfile.id &lt;different id for both chargingProfiles&gt;</b> <b>chargingProfile.chargingProfilePurpose ChargingStationMaxProfile</b>	
	<b>Post scenario validations:</b> - N/a	

### 6.3.11. Page 830 - (2024-11) - TC\_N\_46\_CSMS - Updated tool validation sendLocalListRequest

Test case name	Clear Customer Information - Update Local Authorization List	
Test case Id	TC_N_46_CSMS	
...		
Before (Preparations)	...	
	<b>Memory State:</b> A local authorization list with <Configured <b>valid_idtoken_idtoken</b> > is configured.	
	...	
Main (Test scenario)	<b>Charging Station</b>	<b>CSMS</b>
	...	...
Tool validations	<p>* Step 1: Message <b>CustomerInformationRequest</b></p> <ul style="list-style-type: none"><li>- <b>report</b> <i>true</i> AND</li><li>- <b>clear</b> <i>true</i> AND</li><li>- <b>idToken.idToken</b> &lt;Configured <i>valid_idtoken_idtoken</i>&gt;</li><li>- <b>idToken.type</b> &lt;Configured <i>valid_idtoken_type</i>&gt;</li></ul> <p>* Step 5: Message <b>SendLocalListRequest</b></p> <ul style="list-style-type: none"><li>- <b>updateType</b> <i>Differential</i></li><li>- <b>versionNumber</b> &lt;Bigger than currently configured in <i>OCTT</i>&gt;</li><li>- <b>localAuthorizationList</b> &lt;Contains only the configured <i>valid_idtoken_idtoken</i>, without <i>idTokenInfo</i>&gt;</li></ul> <p>OR</p> <ul style="list-style-type: none"><li>- <b>updateType</b> <i>Full</i></li><li>- <b>localAuthorizationList</b> &lt;Does NOT contain configured <i>valid_idtoken_idtoken</i>&gt;</li></ul> <p><b>Post scenario validations:</b></p> <ul style="list-style-type: none"><li>- N/a</li></ul>	