

OCPP 2.0.1 Edition 3 Errata 2024-09

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Version History

Version	Date	Description
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.

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 2024-09 of the errata. The errata of this version are marked with "(2024-09)" 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]".

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

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

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

Currently no new errata for OCPP 2.0.1 part 3.

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. This also applies to retries of messages.
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.

5.1. 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	С	Applicable if one or more of the local start authorization options is implemented.		Authorization options for local start
New	TC_E_04	Success	С	Applicable if one or more of the local start authorization options is implemented.	<u> </u>	Authorization options for local start

5.2. 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	С	М	- 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
New	TC_E_17	Deauthorized - EV side disconnect	С	М	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

5.3. 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	xDefaultProfile			
AQ-3.2	ChargingStationMaxProfile			
AQ-4	Does your CSMS support Recurring values for the following Charging Profiles:			
AQ-4.1	TxDefaultProfile			
AQ-4.2	ChargingStationMaxProfile			

6.1. Charging Station

6.1.1. 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					
Main	Charging Station	CSMS				
(Test scenario)	2. The Charging Station responds with a SetNetworkProfileResponse	1. The OCTT sends a SetNetworkProfileRequest with configurationSlot is <configured -="" <configured="" already="" configurationslot="" connectiondata.messagetimeout="" depending="" in="" is="" messagetimeout="" on="" one="" or="" use="" which=""> - connectionData.ocppCsmsUrl <configured ocppcsmsurl=""> - connectionData.ocppInterface <configured ocppinterface=""> - connectionData.ocppVersion OCPP20 - connectionData.securityProfile <configured +="" 1="" securityprofile=""></configured></configured></configured></configured>				
	4. The Charging Station responds with a SetVariablesResponse	3. The OCTT sends a SetVariablesRequest with variable.name is "NetworkConfigurationPriority" component.name is "OCPPCommCtrlr" attributeValue is " <configured configurationslot2"=""><configured configurationslot="">"</configured></configured>				
Tool validations	1 -					
	Post scenario validations:					
	- N/a					

6.1.2. Page 56 - (2024-09) - TC_B_20_CS - Added check on omitting evseld [4390]

Test case name	Test case name Reset Charging Station - Without ongoing transaction - Onldle				
Test case Id	Test case Id TC_B_20_CSMS				

Test case name	Reset Charging Station - Without ongoing transaction - Onldle			
Main	Charging Station	CSMS		
(Test scenario)		,		
Tool validations	* Step 1:			
	Message ResetRequest			
	- evseld must be omitted			
	* Step 4:			
	Message BootNotificationResponse			
	- status Accepted			
	Post scenario validations: - N/a			

6.1.3. Page 57 - (2024-09) - TC_B_21_CS - Added check on omitting evseld [4390]

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

6.1.4. 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	Charging Station	CSMS	
(Test scenario)			
Tool validations	* Step 1:		
	Message ResetRequest		
	- type Immediate		
	- evseld is omitted		
	* Step 6:		
Message BootNotificationResponse			
	- status Accepted		
	Post scenario validations: - N/a		

6.1.5. Page 138 - (2024-09) - TC_C_47_CS - StoppedReason must be validated in Ended event [020-4467]

Test case name	est case name Stop Transaction with a Master Pass - With UI - All transactions	
Test case Id	TC_C_47_CS	

Test case name	Stop Transaction with a Master Pass - With UI - All transactions		
Main	Charging Station	CSMS	
(Test scenario)			
Tool validations	* Step 1:		
	Message AuthorizeRequest		
	- idToken.idToken <configured masterpass_idtoken_<="" td=""><td>idtoken></td></configured>	idtoken>	
	- idToken.type <configured masterpass_idtoken_type=""></configured>		
* Step 3:			
- transactionInfo.stoppedReason MasterPass (in last TransactionEvent		t TransactionEventRequest)	
	- idToken omit or		
	- idToken.idToken <configured masterpass_idtoken_idtoken=""> and</configured>		
	 - idToken.type <configured masterpass_idtoken_type=""> (once per stopped transaction)</configured> - eventType Ended (in last TransactionEventRequest) 		
	Post scenario validations: - N/a		

6.1.6. Page 151 - (2024-09) - TC_C_54_CS - removed reusable state IdTokenCached [020-3510]

Test case name	Authorization using Contract Certificates 15118 - Offline - ContractValidationOffline is true		
Test case Id	TC_C_54_CS		
Before (Preparations)	Configuration State:		
	Memory State: CertificateInstalled for certificateType V2GRootCertificate CertificateInstalled for certificateType MORootCertificate IdTokenCached for <configured fields="" idtoken="" valid=""> (If implemented) IdTokenLocalAuthList for <configured fields="" idtoken="" valid=""> (If implemented)</configured></configured>		
	Reusable State(s): N/a		
Main	Charging Station CSMS		
(Test scenario)			

6.1.7. Page 153 - (2024-09) - TC_C_55_CS - removed reusable state IdTokenCached [020-3510]

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:	
	CertificateInstalled for certificateType V2GRootCertificate	
	CertificateInstalled for certificateType MORootCertificate	
	IdTokenCached for <configured fields="" idtoken="" valid=""> (If implemented) IdTokenLocalAuthList for <configured fields="" idtoken="" valid=""> (If implemented)</configured></configured>	
	Reusable State(s): N/a	

Test case name	Authorization using Contract Certificates 15118 - Offline - ContractValidationOffline is false	
Main	Charging Station	CSMS
(Test scenario)		

6.1.8. 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 TxStopPoint is ReadOnly AND the value Authorized OR PowerPathClosed is NOT set OR (EnergyTransfer OR DataSigned OR	
	EVConnected is set) If the mutability of TxStopPoint is _ReadWrite, then the value Authorized OR PowerPathClosed must be supported.	
New: Prerequisite(s)	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.	

6.1.9. Page 185 - (2024-09) - TC_E_35_CS - StoppedReason must be validated in Ended event [020-4467]

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

6.1.10. Page 214 - (2024-06) TC_E_43_CS Move reusable state TransactionEventsInQueueEnded to Before [768]

 $State\ Transaction Events In Queue Ended\ is\ moved\ to\ Before\ stage.$

Test Case Id: TC_E_43_CS

Test case name	Offline Behaviour - Transaction during offline period	
Test case Id	C_E_43_CS	
Use case Id(s)	E12	
Requirement(s)	E12.FR.01,E12.FR.02,E12.FR.06	
System under test	Charging Station	

Test case name	Offline Behaviour - Transaction during offline period			
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 method	The Charging Station supports authorization methods other than NoAuthorization		
Before (Preparations)	Configuration State: N/a			
	Memory State: N/a			
	Reusable State(s): State is TransactionEventsInQueueEnded			
Main	Charging Station	CSMS		
(Test scenario)	1. Execute Reusable State TransactionEventsInQue	cueEnded		
	1. The Charging Stations sends a	2. The OCTT responds with a		
	TransactionEventRequest	2. The OCTT responds with a TransactionEventResponse		
	Note(s): - The Charging Station will empty its Transaction message queue. This will contain one or more TransactionEventRequest messages			
Tool validations	* Step 1:			
	All messages: TransactionEventRequest			
	- offline must be <i>true</i>			
	One of the messages: TransactionEventRequest			
	- eventType Started			
	One of the messages: TransactionEventRequest			
	- eventType Ended			
	Post scenario validations: N/a			

NOTE

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

6.1.11. 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

6.1.12. 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: MeterValuesRequest/TransactionEventRequest	
	- None of the provided sampledValue s shall have location = EV, except when measurand = S	

6.1.13. 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 (="" aligneddatasendduringidle="" fa<="" false="" is="" of="" registervalueswithoutphases="" td=""><td>(If implemented)</td><td></td></configured>	(If implemented)		
	Memory State: N/a			
	Reusable State(s): State is EnergyTransferStarted			
Main	Charging Station		CSMS	
(Test scenario)				
Tool validations	Note: The following steps do not need to be sent in a specific order.			
	* Step 1:			
	Message: MeterValuesRequest			
	- meterValue[0].sampledValue[0].context must be Sample.Clock - meterValue[0].sampledValue must contain <an aligneddatameasurands="" at="" be<="" configured="" element="" field="" for="" in="" may="" measurand="" number="" of="" per="" phases="" reported="" supplyphases.="" td="" the=""></an>			
	omitted when the measurand is "Energy.Active.Import.Register">			
	* Step 3: Message: TransactionEventRequest			
	- triggerReason must be MeterValueClock			
	- metervalue[0].sampledValue[0].context must be Sample.Clock - metervalue[0].sampledValue must contain <an aligneddatameasurands="" at="" be<="" configured="" element="" field="" for="" in="" may="" measurand="" number="" of="" per="" phases="" reported="" supplyphases.="" td="" the=""></an>			
	omitted when the measurand is "Energy.Active.Import.Register">			
	Post scenario validations:			

6.1.14. 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)	
Requirement(s)	J02.FR.01,J02.FR.02,J02.FR.03,J02.FR.04,J02.FR.10, E06.FR.11, E06.FR.17 , E07.FR.08, E07.FR.13 ,E08.FR.09,E09.FR.05,E10.FR.04,E12.FR.07	
	·	

6.1.15. 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 EnergyTransferStarted
5,

6.1.16. 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=ChargingStateChanged 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	* Step 3: (Message: NotifyEVChargingScheduleRequest) evseld < Configured evseld>		
	chargingSchedule.chargingSchedule[0].chargingRateUnit <configured chargingrateunit=""></configured>		
	${\bf charging Schedule. charging Schedule [0]. charging Schedule Period [0]. start Period } \ 0$		
	If <configured chargingrateunit=""> is W:</configured>		
	chargingSchedule.chargingSchedule[0].chargingSchedulePeriod[0].limit <= 8000		
	Else:		
	chargingSchedule.chargingSchedule[0].chargingSchedulePeriod[0].limit <= 8 * Step 5:		
	Message: TransactionEventRequest		
	-triggerReason must be ChargingStateChanged		
	-transactionInfo.chargingState must be Charging -offline true		
	Post scenario validations: N/a		

6.1.17. 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 mon	
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.	
Prerequisite(s)	Charging Station is online at start of test for configuration. CS has implemented device model monitoring and MonitoringCtrlr::Enabled = true.	
Before	Configuration State:	
(Preparations)	SetConfiguration with:	
	- component.name = "MonitoringCtrlr"	
	- variable.name = "OfflineQueuingSeverity"	
	- attributeValue = <configured severity=""></configured>	
	Memory State: Charging Station has custom or predefined monitors on variable AvailabilityState of Configured EVSE and Configured ConnectorId with severity = <configured severity=""> + 1</configured>	
	Reusable State(s): N/a	

Test case name	Offline Notification - OfflineMonitoringEventQueuingSeverity set higher than severityLevel of the monitor	
Main	Charging Station	CSMS
(Test scenario)	Manual Action: Connect the EV and EVSE.	
	1. The Charging Station notifies the CSMS about the status change of the connector.	2. The OCTT responds accordingly.
	Note(s): Step 3, 4, 5, 6, 7, and 8 need to be executed when TxStartPoint contains EVConnected OR ParkingBayOccupancy	
	3. The Charging Station sends a TransactionEventRequest	4. The OCTT responds with a TransactionEventResponse
	Manual Action: Take Charging Station offline.	
	Manual Action: Disconnect the EV and EVSE.	
	Manual Action: Connect the EV and EVSE.	
	Note(s): The tool will now wait for <configured duration="" transaction=""> seconds</configured>	
	Manual Action: Bring Charging Station back online.	
	5. The Charging Station sends a TransactionEventRequest	6. The OCTT responds with a TransactionEventResponse
	7. The Charging Station sends a TransactionEventRequest	8. The OCTT responds with a TransactionEventResponse
	Note(s): The CS shall not send a NotifyEventRequest StatusNotification may still be received.	for AvailabilityState of EVSE and Connector. A

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

$6.1.18.\ Page\ 470$ - (2024-09) - TC_N_24_CS - Referring to incorrect use case and requirements [020-4793]

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	Charging Station	CSMS
(Test scenario)		
Tool validations	l validations	
	Post scenario validations: N/A	

6.1.19. 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 id="" monitor=""> for component EVSE and variable AvailabilityState and type = Delta and severity = <preconfigured severity=""></preconfigured></preconfigured>	
Before (Preparations)	Configuration state: N/a	
	Memory state: a preconfigured monitor exists with id < I AvailabilityState and type = Delta and sev	Preconfigured monitor id> for component EVSE and variable erity = <preconfigured severity=""></preconfigured>
	Charging State: N/a	
Main	Charging Station	CSMS
(Test scenario)		

6.1.20. 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)	Configuration State: N/a	
	Memory State: N/a	
	Charging State:	
	Execute Reusable State EVConnectedPreSession	
	Execute Reusable State Authorized15118 Execute Reusable State ParkingBayUnoccupied	

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

6.1.21. 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	Description The ChargingStationCertificate is renewed using A02/A03	

RenewChargingStationCertificate	
Charging Station	CSMS
2. The Charging Station responds with a TriggerMessageResponse	1. The OCTT sends a TriggerMessageRequest With requestedMessage SignChargingStationCertificate
3 The Charging Station sends a SignCertificateRequest	4. The OCTT responds with a SignCertificateResponse With status Accepted
6. The Charging Station responds with a CertificateSignedResponse	5. The OCTT sends a CertificateSignedRequest With certificateChain < Certificate generated from the received CSR from step 3 and signed by the provided CSMS Root certificate> certificateType ChargingStationCertificate
	hould reconnect with the new certificate. OCTT waits some cur, will send a Reset command to Charging Station to force a
7. The Charging Station reconnects.	
8 . If the reconnect was forced by a Reset: The Charging Station sends a BootNotificationRequest	9. OCTT responds with a BootNotificationResponse
* Step 2: Message: TriggerMessageResponse - status must be Accepted * Step 3: Message: SignCertificateRequest - csr must contain <an (pem)="" and="" as="" at="" be="" cryptography="" csr="" curve="" descri="" dsa="" elliptic="" follow="" format.="" k="" key="" least="" meets="" must="" or="" received="" rsa="" that="" the="" transmitted="" using="" when=""> * Step 6: Message: CertificateSignedResponse - status must be Accepted * Step 7: Charging Station must reconnect with new cert</an>	t 2048 bits long. ey must be at least 224 bits long. bed in RFC 2986 and then encoded in Privacy-Enhanced Mail
	2. The Charging Station responds with a TriggerMessageResponse 3 The Charging Station sends a SignCertificateRequest 6. The Charging Station responds with a CertificateSignedResponse If the certificate is valid, then Charging Station stime for a reconnection, and if that does not occreconnection. 7. The Charging Station reconnects. 8. If the reconnect was forced by a Reset: The Charging Station sends a BootNotificationRequest * Step 2: Message: TriggerMessageResponse - status must be Accepted * Step 3: Message: SignCertificateRequest - csr must contain <an (pem)="" and="" as="" at="" be="" cryptography="" csr="" curve="" descripe="" dsa="" elliptic="" followhen="" format.="" kand="" key="" least="" meets="" must="" or="" received="" rsa="" that="" the="" transmitted="" using="" when=""> * Step 6: Message: CertificateSignedResponse - status must be Accepted * Step 7: Charging Station must reconnect with new cert</an>

6.2. CSMS

6.2.1. 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	Charging Station	CSMS	
(Test scenario)		1. The CSMS sends a TriggerMessageRequest	
	2. The OCTT responds with a		
	TriggerMessageResponse		
	With status Accepted		
	3 The OCTT sends a SignCertificateRequest		
	With csr <configured csr=""></configured>	4. The CSMS responds with a	
	certificateType ChargingStationCertificate	SignCertificateResponse	
		5. The CSMS sends a CertificateSignedRequest	
	6. The OCTT responds with a		
	CertificateSignedResponse		
	With status Rejected		
	7. The OCTT sends a		
	SecurityEventNotificationRequest	8. The CSMS responds with a	
	with type = InvalidChargingStationCertificate	SecurityEventNotificationResponse	
Tool validations			

6.2.2. Page 597 - (2024-09) - TC_A_19_CSMS - Removed validation of OcppCsmsUrl [020-4355]

Validation of OcppCsmsUrl 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	Charging Station	CSMS	
(Test scenario)			
Tool validations	* Step 1:	•	
	Message SetNetworkProfileRequest		
	- connectionData.messageTimeout < Configured messageTimeout >		
	- connectionData.ocppCsmsUrl < Configured ocppCsmsUrl>		
	- connectionData.ocppInterface < Configured ocppInterface>		
	- connectionData.ocppTransport JSON		
	- connectionData.ocppVersion OCPP20		
	- connectionData.securityProfile < Configured securityProfile + 1>		
	* Step 3:		
	Message SetVariablesRequest setVariableData: - variable.name = "NetworkConfigurationPriority" - component.name = "OCPPCommCtrlr" - attributeValue = <contains 1="" at="" configurationslot="" provided="" step=""></contains>		
	Post scenario validations: - N/a		

6.2.3. 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)	- The configured eMAID is known by the CSMS as valid The configured contract certificate is signed by the configured V2GRoot or MORoot certificate at the CSMS Contract certificate has a responder URL that points to an OCSP service for OCTT CSMS does not have cached OCSP response for the contract certificate.	
Main (Test scenario)	Charging Station	CSMS
	1. The OCTT sends an AuthorizeRequest With idToken.idToken <configured valid_idtoken_idtoken=""> idToken.type <configured valid_idtoken_type=""> iso15118CertificateHashData is absent</configured></configured>	2. The CSMS sends an OCSP request to responder URL of certificate to check validity
	certificate from keystore	

6.2.4. 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	Charging Station	CSMS
(Test scenario)		
	7. The OCTT sends a TransactionEventRequest With triggerReason is MeterValuePeriodic eventType is Updated timestamp <the between="" configured="" equals="" interval="" intervals="" messages="" meter="" of="" received="" sampled="" the="" timestamps="" value="" values="">. sampledValue.context is Sample.Periodic</the>	8. The CSMS responds with a TransactionEventResponse
	Note(s): This step will be executed every _ <configured interval="" meter="" sampled="" values=""> - The OCTT will end the testcase after two MeterValues.</configured>	
Tool validations		
	Post scenario validations: - N/a	

6.2.5. Page 728 - (2024-09) - TC_K_03_CSMS - Not requiring validFrom/To fields in charging profile [020-4592] and chargingProfileKind must be Absolute [020-4591]

Test case name	Set Charging Profile - ChargingStationMaxProfile		
Test case Id	TC_K_03_CSMS		
Main (Test scenario)	Charging Station	CSMS	
Tool validations	* Step 1:	·	
	Message SetChargingProfileRequest		
	evseld 0 AND	evseld 0 AND	
	chargingProfile.stackLevel < Configured stackLevel > AND chargingProfile.chargingProfilePurpose ChargingStationMaxProfile_ AND		
	chargingProfile.chargingProfileKind Absolute OR Relative chargingProfile.chargingSchedule.chargingRateUnit < Configured ChargingRateUnit		
	chargingProfile.chargingSchedule.duratio	n <configured duration=""></configured>	
chargingProfile.chargingSchedule.chargingSchedulePeriod.startPeri		ngSchedulePeriod.startPeriod 0	
	chargingProfile.chargingSchedule.chargingSchedulePeriod.limit 8.0 or 8000.0 chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases < Configured numberPhases >		
where <configured numberphases=""> not 3 OR chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases</configured>			
	or <omit> where <configured numberphases=""> 3</configured></omit>		
	chargingProfile.validFrom <not omitted=""></not>		
	chargingProfile.validTo < Not omitted>		
	chargingProfile.chargingSchedule.startSchedule <not omitted=""></not>		
	Post scenario validations: - N/a		

6.2.6. Page 733 - (2024-09) - TC_K_10_CSMS - Not requiring validFrom/To fields in charging profile [020-4592]

Test case name	Set Charging Profile - TxDefaultProfile - All EVSE	
Test case Id	TC_K_10_CSMS	
Main	Charging Station	CSMS
(Test scenario)		

Test case name	Set Charging Profile - TxDefaultProfile - All EVSE	
Tool validations	* Step 1:	
	Message SetChargingProfileRequest	
	evseld 0 AND	
	chargingProfile.stackLevel <configured stacklevel=""> AND</configured>	
	chargingProfile.chargingProfilePurpose TxDefaultProfile AND	
	chargingProfile.chargingProfileKind Absolute AND	
	chargingProfile.validFrom <not omitted=""> AND</not>	
	chargingProfile.validTo <not omitted=""> AND</not>	
	chargingProfile.chargingSchedule.startSchedule <not omitted=""> AND</not>	
	chargingProfile.chargingSchedule.chargingRateUnit < Configured ChargingRateUnit > AND	
	chargingProfile.chargingSchedule.chargingSchedulePeriod.startPeriod 0 AND	
	chargingProfile.chargingSchedule.duration < Configured duration>	
	chargingProfile.chargingSchedule.chargingSchedulePeriod.limit 6.0 or 6000.0 AND chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases < Configured numberPhases >	
	where <configured numberphases=""> not 3 OR chargingProfile.chargingSchedule.chargingSchedulePeriod.numberPhases <configured numberphases=""></configured></configured>	
	or <omit> where <configured numberphases=""> 3</configured></omit>	
	Post scenario validations: - N/a	

$6.2.7.\ Page\ 734$ - (2024-09) - TC_K_15_CSMS - Not requiring validFrom/To fields in charging profile [020-4592]

Test case name	Set Charging Profile - Not Supported TC_K_15_CSMS		
Test case Id			
			
Main	Charging Station	CSMS	
(Test scenario)	2. The OCTT responds with RPC Framework: CALLERROR: NotSupported.	1. The CSMS sends a SetChargingProfileRequest with: evseld <configured evseld=""> AND chargingProfile.stackLevel <configured stacklevel=""> AND chargingProfile.chargingProfilePurpose TxDefaultProfile AND chargingProfile.chargingProfileKind Absolute AND chargingProfile.validFrom <not omitted=""> AND chargingProfile.validTo <not omitted=""> AND chargingProfile.chargingSchedule.startSchedule <not omitted=""> AND chargingProfile.chargingSchedule.chargingRateUni <configured chargingrateunit=""> AND chargingProfile.chargingSchedule.chargingSchedule ePeriod.startPeriod 0 AND chargingProfile.chargingSchedule.duration <configured duration=""> chargingProfile.chargingSchedule.chargingSchedule ePeriod.limit 6.0 or 6000.0 AND</configured></configured></not></not></not></configured></configured>	
		chargingProfile.chargingSchedule.chargingSchedu ePeriod.numberPhases < Configured numberPhases	
Tool validations		<u> </u>	

6.2.8. 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=ChargingStateChanged 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