Oproep voor een Concessie van openbare dienst met als voorwerp het leveren, installeren, onderhoud en exploiteren van publiek toegankelijke normale Laadinfrastructuur voor Elektrische Voertuigen in de stad Gent. - MB 05/2021

Bijlage 5 - OCPP 2.0.1 Use cases	Phase 1 Basic (Functionalities conform OCPP 1.6)	Phase 2 (Privacy & security, customer information, added functionality, advanced device management)	Additional information
Use Case			
A. Security			
A01 - Update Charging Station Password for HTTP Basic Authentication		mandatory	
A02 - Update Charging Station Certificate by request of CSMS		mandatory	
A03 - Update Charging Station Certificate initiated by the Charging Station		optional	
A04 - Security Event Notification		mandatory	
B. Provisioning			
Booting a Charging Station			
B01 - Cold Boot Charging Station	mandatory		
B02 - Cold Boot Charging Station - Pending	mandatory		
B03 - Cold Boot Charging Station - Rejected	mandatory		
B04 - Offline Behavior Idle Charging Station	mandatory		
Configuring a Charging Station			
B05 - Set Variables	mandatory		
B06 - Get Variables	mandatory		
B07 - Get Base Report	mandatory		
B08 - Get Custom Report		mandatory	
B09 - Setting a new NetworkConnectionProfile		mandatory	
B10 - Migrate to new ConnectionProfile		mandatory	
Resetting a Charging Station			
B11 - Reset - Without Ongoing Transaction	mandatory		
B12 - Reset - With Ongoing Transaction	mandatory		
C. Authorization			
Authorization options			
C01 - EV Driver Authorization using RFID	mandatory		
C02 - Authorization using a start button		conditional	mandatory under the condition that the solution has a start button
C03 - Authorization using credit/debit card		conditional	mandatory under the condition that the solution has a credit/debit card reader
C04 - Authorization using pin-code		conditional	mandatory under the condition that the solution has a pin key board
C05 - Authorization for CSMS initiated transactions	mandatory		
C06 - Authorization using local id type		conditional	mandatory under the condition that the solution has an alternative means of local identification
Plug and Charge Authorization			

C07 - Authorization using Contract Certificates		conditional	mandatory under the condition that the solution has an ISO 15118 controller
C08 - Authorization at EVSE using ISO 15118 External Identification Means (EIM)		conditional	mandatory under the condition that the solution has an ISO 15118 controller
GroupId			
C09 - Authorization by GroupId	mandatory		
Authorization Cache			
C10 - Store Authorization Data in the Authorization Cache	mandatory		
C11 - Clear Authorization Data in Authorization Cache	mandatory		
C12 - Start Transaction - Cached Id	mandatory		
Local Authorization list			
C13 - Offline Authorization through Local Authorization List	mandatory		
C14 - Online Authorization through Local Authorization List	mandatory		
Offline Authorization			
C15 - Offline Authorization of unknown Id	mandatory		
Master pass			
C16 - Stop Transaction with a Master Pass		mandatory	
D. LocalAuthorizationList Management			
D01 - Send Local Authorization List	mandatory		
D02 - Get Local List Version	mandatory		
E. Transactions			
OCPP transaction mechanism			
E01 - Start Transaction Options		mandatory	
E02 - Start Transaction - Cable Plugin First	mandatory		
E03 - Start Transaction - IdToken First	mandatory		
E04 - Transaction started while Charging Station is offline	mandatory		
E05 - Start Transaction - Id not Accepted	mandatory		
E06 - Stop Transaction options		mandatory	
E07 - Transaction locally stopped by IdToken	mandatory		
E08 - Transaction stopped while Charging Station is offline	mandatory		
E09 - When cable disconnected on EV-side: Stop Transaction	mandatory		
E10 - When cable disconnected on EV-side: Suspend Transaction	mandatory		
E11 - Connection Loss During Transaction	mandatory		
E12 - Inform CSMS of an Offline Occurred Transaction	mandatory		
E13 - Transaction related message not accepted by CSMS	mandatory		
E14 - Check transaction status		mandatory	
Interrupting and stopping ISO / IEC 15118 charging			
E15 - End of charging process		conditional	mandatory under the condition that the solution has an ISO 15118 controller
F. RemoteControl			
Remote Transaction Control			
F01 - Remote Start Transaction - Cable Plugin in First	mandatory		
F02 - Remote Start Transaction - Remote Start First	mandatory		
F03 - Remote Stop Transaction	mandatory		
F04 - Remote Stop ISO / IEC 15118 charging from CSMS		conditional	mandatory under the condition that the solution has an ISO 15118 controller
Unlock Connector			
F05 - Remotely Unlock Connector	mandatory		
Remote Trigger			
F06 - Trigger Message		mandatory	

G. Availability			
G01 - Status Notification	mandatory		
G02 - Heartbeat	mandatory		
G03 - Change Availability EVSE	mandatory		
G04 - Change Availability Charging Station	mandatory		
G05 - Lock Failure	mandatory		
H. Reservation			
H01 - Reservation		mandatory	
H02 - Cancel Reservation		mandatory	
H03 - Use a reserved Connector with GroupId		mandatory	
H04 - Reservation Ended, not used		mandatory	
I. TariffAndCost			
I01 - Show EV Driver-specific Tariff Information		conditional	mandatory under the condition that the solution has a display
I02 - Show EV Driver Running Total Cost During Charging		conditional	mandatory under the condition that the solution has a display
I03 - Show EV Driver Final Total Cost After Charging		conditional	mandatory under the condition that the solution has a display
I04 - Show Fallback Tariff Information		conditional	mandatory under the condition that the solution has a display
I05 - Show Fallback Total Cost Message		conditional	mandatory under the condition that the solution has a display
I06 - Update Tariff Information During Transaction		conditional	mandatory under the condition that the solution has a display
J. MeterValues			
J01 - Sending Meter Values not related to a transaction	mandatory		
J02 - Sending transaction related Meter Values	mandatory		
ISO / IEC 15118 MeterValue signing			
J03 - Charging Loop with metering information exchange		conditional	mandatory under the condition that the solution has an ISO 15118 controller
K. SmartCharging			
General Smart Charging			
K01 - SetChargingProfile	mandatory		
K02 - Central Smart Charging	mandatory		
K03 - Local Smart Charging	mandatory		
K04 - Internal Load Balancing	mandatory		
K05 - Remote Start Transaction with Charging Profile	mandatory		
K06 - Offline Behavior Smart Charging During Transaction	mandatory		
K07 - Offline Behavior Smart Charging at Start of Transaction	mandatory		
K08 - Get Composite Schedule	mandatory		
K09 - Get Charging Profiles		mandatory	
K10 - Clear Charging Profile	mandatory		
External Charging Limit based Smart Charging			
K11 - Set / Update External Charging Limit for an ongoing transaction		conditional	mandatory under the condition that the solution has a local interface for smart charging
K12 - Reset / release external charging limit		conditional	mandatory under the condition that the solution has a local interface for smart charging
K13 - Set / update external charging limit (not on a transaction)		conditional	mandatory under the condition that the solution has a local interface for smart charging
K14 - External Charging Limit with Local Controller		conditional	mandatory under the condition that the solution has a local interface for smart charging

ISO / IEC 15118 based Smart Charging			
K15 - Charging with load leveling based on High Level Communication		conditional	mandatory under the condition that the solution has an ISO 15118 controller
K16 - Optimized charging with scheduling to the CSMS		conditional	mandatory under the condition that the solution has an ISO 15118 controller
K17 - Renegotiating a Charging Schedule		conditional	mandatory under the condition that the solution has an ISO 15118 controller
L. FirmwareManagement			
L01 - Secure Firmware Update		mandatory	
L02 - Non-Secure Firmware Update	mandatory	disabled	In Phase 2 this use case must be disabled
L03 - Publish Firmware file on Local Controller		conditional	mandatory under the condition that the solution includes a local controller
L04 - Unpublish Firmware file on Local Controller		conditional	mandatory under the condition that the solution includes a local controller
M. ISO IEC 15118 CertificateManagement			
M01 - Certificate installation EV		conditional	mandatory under the condition that the solution has an ISO 15118 controller
M02 - Certificate Update EV		conditional	mandatory under the condition that the solution has an ISO 15118 controller
M03 - Retrieve list of available certificates from a Charging Station		mandatory	
M04 - Delete a specific certificate from a Charging Station		mandatory	
M05 - Install CA certificate in a Charging Station		mandatory	
M06 - Get Charging Station Certificate status		conditional	mandatory under the condition that the solution has an ISO 15118 controller
N. Diagnostics			
Logging			
N01 - Retrieve Log Information	mandatory		
Configure Monitoring			
N02 - Get Monitoring report		mandatory	
N03 - Set Monitoring Base		mandatory	
N04 - Set Variable Monitoring		mandatory	
N05 - Set Monitoring Level		mandatory	
N06 - Clear / Remove Monitoring		mandatory	
Monitoring Events			
N07 - Alert Event		mandatory	
N08 - Periodic Event		mandatory	
N09 - Get Customer information		mandatory	
N10 - Clear Customer information		mandatory	
O. DisplayMessage			
O01 - Set Message Display		conditional	mandatory under the condition that the solution has a display
O02 - Set Message Display for Transaction		conditional	mandatory under the condition that the solution has a display
O03 - Get All Message Display IDs		conditional	mandatory under the condition that the solution has a display
O04 - Get a Specific Message Display		conditional	mandatory under the condition that the solution has a display
O05 - Clear a Message Display		conditional	mandatory under the condition that the solution has a display
O06 - Replace Message Display		conditional	mandatory under the condition that the solution has a display
P. DataTransfer			
P01 - Data Transfer to the Charging Station	mandatory		able to reject datatransfer message.
P02 - Data Transfer to the CSMS	mandatory		able to reject datatransfer message.