OICP 14.1 Release Notes

Version 2.1

May 2016

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1 Introduction

Please find attached all changes regarding the new OICP Version 2.1.

1.1 [HUBJECT-487] - OICP-2.1

From now the HBS supports the new OICP version 2.1 and the current version 2.0. OICP version 1.2 is deprecated and will not be supported any longer.

Until OICP version 2.0 the overall functional OICP protocol version (2.0) and the technical web service versions, which are part of the service endpoints and the namespaces (e.g. eRoamingAuthorization_V2.0), have been the same. So OICP-2.0 only contained services with version 2.0.

With OICP protocol version 2.1 and the introduction of the new eRoamingReservation_V1.0 service this version correlation has been given up.

This allows more version flexibility and avoids unnecessary interface changes (and thus unnecessary implementation work at partner side) in case that a service does not change functionally with a new OICP version.

The table shows all web services and their current version as part of OICP version 2.1.

Service	Version
eRoamingAuthorization	2.0
eRoamingReservation	1.0
eRoamingAuthenticationData	2.0
eRoamingEvseData	2.1
eRoamingEvseStatus	2.0

1.2 [HUBJECT-487], [HUBJECT-488] - New service type "Reservation"

From now the HBS supports the service Reservation, which allows the reservation of charging spots. The HBS therefore exposes the new web service "eRoamingReservation_V1.0" as part of OICP-2.1.

The conclusion of contracts for Reservation via the HBS portal works analoguous to the Authorization service. CPOs, which are activated for the service, are able to create service offers for Reservation.

As with Authorization the service allows for specifying detailled service prices. EMPs, which are activated for the service, are able to create service subscriptions related to CPO's service offers.

1.3 [HUBJECT-490] - Operation eRoamingAuthorizeRemoteReservationStart

This operation is part of the new eRoamingReservation_V1.0 service. It allows EMPs to remotely authorize the reservation of an EVSE. The operation basically works in the same way as eRoamingAuthorizeRemoteStart.

Also the operation's attributes are the same. An EMP can send a request, amongst others specifying the requested EVSE to be reserved. When all checks are passed the HBS will forward the request to the

corresponding CPO. In case that the CPO responds positively, the HBS will create a SessionID for this reservation process and will add the SessionID to the operation's response to the EMP.

The demanded reservation product can be specified by the EMP using the field PartnerProductID.

1.4 [HUBJECT-490] - Operation eRoamingAuthorizeRemoteReservationStop

This operation is part of the new eRoamingReservation_V1.0 service. Based upon the start operation described above it allows EMPs to remotely authorize the end of a reservation of an EVSE.

The operation basically works in the same way as eRoamingAuthorizeRemoteStop. Also the operation's attributes are the same. An EMP must pass a SessionID with the request.

When all checks are passed the HBS will forward the request to the corresponding CPO.

In order to finalize a reservation process a CPO can send a ChargeDetailRecord request, passing the reservation's SessionID, to the HBS.

1.5 [HUBJECT-490] - Adjusted status code descriptions

With almost every operation response the HBS sends a status code, which indicates the operation's success state. Every numeric code is complemented by a status description. The descriptions of three status codes have

been adjusted in order to better describe the status. These are the codes, the new descriptions and the old descriptions in brackets:

- 300 - Partner not found (Provider not found)

- 310 - Partner did not respond (Provider did not respond)

- 601 - EVSE already reserved (EVSE reserved)

1.6 [HUBJECT-496] - Value Added Services

With OICP-2.1 the EVSE data records, which are exchanged via the HBS, have been enhanced with the new attribute "ValueAddedServices".

The CPOs can specifiy whether and which value added service are available with a certain EVSE - e.g. whether an EVSE is reservable.

The following value added services are provided:

Reservation
DynamicPricing
ParkingSensors
MaximumPowerCharging
PredictiveChargePointUsage
ChargingPlans
None