ENECHNAGE Go-Challenge
Interface Specification Document

Glossary

Term	Description
CPO	Charging Point Operator
EV	Electric Vehicle.
EVSE	Electric Vehicle Supply Equipment. Is considered as an independently operated and managed part of a Charge Point that can deliver energy to one EV at a time.
Location	The Location objects live in the CPO back-end system. They describe the charging locations of an operator.

Cardinality

Symbol	Description	Type
?	An optional object. If not set, the field should be omitted.	Object
1	Required object	Object
*	A list of zero or more objects. If empty, the field should be omitted.	[Object]
+	A list of at least one object.	[Object]

Endpoint

Locations Endpoint

We offer the Locations endpoint, which allows you to fetch a list of locations within a circular area defined by a specified {latitude}, {longitude}, and {radius}.

URI

```
api/locations?[latitude={latitude}]&[longitude={longitude}]&[radius=
{radius}]&[date_from={date_from}]&[date_to={date_to}]
```
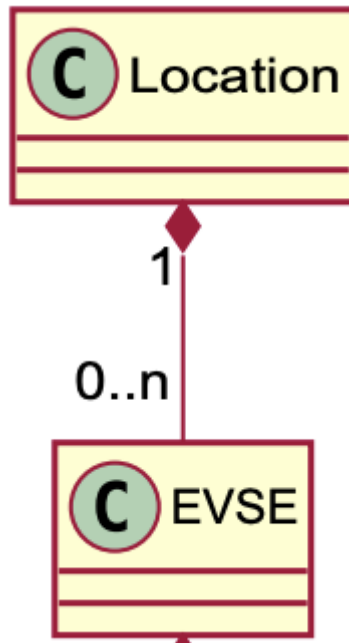
Request Method

GET

Request Parameters

Parameter	Datatype	Required	Description in OCPI
latitude	string(11)	yes	Latitude of the point in decimal degree. Example: 50.770774. Decimal separator: "." Regex: -?[0-9]{1,2}\.[0-9]{5,7}
longitude	string(12)	yes	Longitude of the point in decimal degree. Example: -126.104965. Decimal separator: "." Regex: -?[0-9]{1,3}\.[0-9]{5,7}
radius	int	no	Search radius from latitude and longitude. Unit: km. If not specified, the default will be set to 100 km.

Response Data

Type	Card.	Description
Location	*	List of all Locations with valid EVSEs.

Object description

Location and EVSE have the following relation.

Location object

Property	Data Type	Card.	Description
id	string(36)	1	Unique ID of the Location
name	string(255)	?	Name of the Location
address	string(45)	1	Address of the Location
coordinates	GeoLocation	1	Coordinates object containing latitude and longitude
evses	EVSE	*	Array of EVSE objects. An EVSE represents a charger connected to a charging station.

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EVSE object

Property	Data Type	Card.	Description
uid	string(36)	1	Unique identifier of the EVSE within the CPO's platform.
status	Status	1	Current status of the EVSE, such as "AVAILABLE", "BLOCKED", "CHARGING", etc.

Data types

GeoLocation class

Property	Data Type	Card.	Description
latitude	string(11)	1	Latitude of the point in decimal degree. Example: 50.770774. Decimal separator: "." Regex: -?[0-9]{1,2}\.[0-9]{5,7}
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Status enum

Value	Value on DataBase	Description
AVAILABLE	1	AVAILABLE The EVSE/Connector is able to start a new charging session.
BLOCKED	2	The EVSE/Connector is not accessible because of a physical barrier, i.e. a car.
CHARGING	3	The EVSE/Connector is in use.
INOPERATIVE	4	The EVSE/Connector is not yet active, or temporarily not

		available for use, but not broken or defect.
OUTOFORDER	5	The EVSE/Connector is currently out of order, some part/components may be broken/defect.
PLANNED	6	The EVSE/Connector is planned, will be operating soon.
REMOVED	7	The EVSE/Connector was discontinued/removed.
RESERVED	8	The EVSE/Connector is reserved for a particular EV driver and is unavailable for other drivers.
UNKNOWN	9	No status information available (also used when offline).