
Renault API

epenet

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FEATURES

This Python package manages the communication with the private Renault API used by the official MyRenault application.

The client is able to read various vehicle attributes, such as:

- mileage
- GPS location
- fuel autonomy (for fuel vehicles)
- battery autonomy (for electric vehicles)
- contracts associated to the vehicle (warranty and connected services)

For some vehicles, it is also possible to manage:

- hvac/pre-conditioning of the vehicle
- charge schedule

This package has been developed to be used with Home-Assistant, but it can be used in other contexts

REQUIREMENTS

- Python ($\geq 3.7.1$)

API USAGE

You can install *Renault API* via pip from PyPI:

```
$ pip install renauld-api
```

```
import aiohttp
import asyncio

from renauld_api.renauld_client import RenaultClient

async def main():
    async with aiohttp.ClientSession() as websession:
        client = RenaultClient(websession=websession, locale="fr_FR")
        await client.session.login('email', 'password')
        print(f"Accounts: {await client.get_person()}") # List available accounts, make a
↳note of kamereon account id

        account_id = "Your Kamereon account id"
        account = await client.get_api_account(account_id)
        print(f"Vehicles: {await account.get_vehicles()}") # List available vehicles, make
↳a note of vehicle VIN

        vin = "Your vehicle VIN"
        vehicle = await account.get_api_vehicle(vin)
        print(f"Cockpit information: {await vehicle.get_cockpit()}")
        print(f"Battery status information: {await vehicle.get_battery_status()}")

loop = asyncio.get_event_loop()
loop.run_until_complete(main())
```


CLI USAGE

The `renault-api` is also available through a CLI, which requires additional dependencies. For the added dependencies, you can install *Renault API* via `pip` from `PyPI`:

```
$ pip install renauld-api[cli]
```

Once installed, the following command prompts for credentials and settings, displays basic vehicle status information, and generates traces:

```
$ renauld-api --log status
```

- Credentials will automatically be stored in the user home directory (`~/credentials/renault-api.json`)
- Logs will automatically be generated in `logs` subfolder

Please see the [Command-line Reference](#) for full details.

CONTRIBUTING

Contributions are very welcome. To learn more, see the [Contributor Guide](#).

LICENSE

Distributed under the terms of the [MIT](#) license, *Renault API* is free and open source software.

DISCLAIMER

This project is not affiliated with, endorsed by, or connected to Renault. I accept no responsibility for any consequences, intended or accidental, as a result of interacting with Renault's API using this project.

CHAPTER
EIGHT

ISSUES

If you encounter any problems, please [file an issue](#) along with a detailed description.

CREDITS

This project was generated from [@cjolowicz's Hypermodern Python Cookiecutter](#) template. This project was heavily based on [@jamesremuscat's PyZE](#) python client for the Renault ZE API.

9.1 CLI Usage

9.1.1 renault-api

Main entry point for the Renault CLI.

```
renault-api [OPTIONS] COMMAND [ARGS]...
```

Options

- version**
Show the version and exit.
- debug**
Display debug traces.
- log**
Log debug traces to file.
- json**
Return data as JSON
- locale <locale>**
API locale (eg. fr_FR)
- account <account>**
Kamereon account ID to use
- vin <vin>**
Vehicle VIN to use

Renault API

accounts

Display list of accounts.

```
renault-api accounts [OPTIONS]
```

charge

Charge functionality.

```
renault-api charge [OPTIONS] COMMAND [ARGS]...
```

history

Display charge history.

```
renault-api charge history [OPTIONS]
```

Options

--period <period>

Period over which to aggregate.

Options day | month

--to <end>

Required Date to finish showing history at (cannot be in the future)

--from <start>

Required Date to start showing history from

mode

Display or set charge mode.

```
renault-api charge mode [OPTIONS]
```

Options

--set <set>

Target charge mode (schedule_mode/always/always_schedule)

schedule

Display or update charge schedules.

```
renault-api charge schedule [OPTIONS] COMMAND [ARGS]...
```

activate

Activate charging schedule {ID}.

```
renault-api charge schedule activate [OPTIONS] ID
```

Arguments

ID

Required argument

deactivate

Deactivate charging schedule {ID}.

```
renault-api charge schedule deactivate [OPTIONS] ID
```

Arguments

ID

Required argument

set

Update charging schedule {ID}.

```
renault-api charge schedule set [OPTIONS] ID
```

Options

--monday <monday>

Monday schedule in format *hh:mm,duration* (for local timezone) or *Thh:mmZ,duration* (for utc) or *clear* to unset.

--tuesday <tuesday>

Tuesday schedule in format *hh:mm,duration* (for local timezone) or *Thh:mmZ,duration* (for utc) or *clear* to unset.

--wednesday <wednesday>

Wednesday schedule in format *hh:mm,duration* (for local timezone) or *Thh:mmZ,duration* (for utc) or *clear* to unset.

--thursday <thursday>

Thursday schedule in format *hh:mm,duration* (for local timezone) or *Thh:mmZ,duration* (for utc) or *clear* to unset.

--friday <friday>

Friday schedule in format *hh:mm,duration* (for local timezone) or *Thh:mmZ,duration* (for utc) or *clear* to unset.

--saturday <saturday>

Saturday schedule in format *hh:mm,duration* (for local timezone) or *Thh:mmZ,duration* (for utc) or *clear* to unset.

--sunday <sunday>

Sunday schedule in format *hh:mm,duration* (for local timezone) or *Thh:mmZ,duration* (for utc) or *clear* to unset.

Arguments

ID

Required argument

show

Display charge schedules.

```
renault-api charge schedule show [OPTIONS]
```

sessions

Display charge sessions.

```
renault-api charge sessions [OPTIONS]
```

Options

--to <end>

Required Date to finish showing history at (cannot be in the future)

--from <start>

Required Date to start showing history from

start

Start charge.

```
renault-api charge start [OPTIONS]
```

stop

Stop charge.

```
renault-api charge stop [OPTIONS]
```

contracts

Display vehicle contracts.

```
renault-api contracts [OPTIONS]
```

http

Raw HTTP.

```
renault-api http [OPTIONS] COMMAND [ARGS]...
```

get

Process HTTP GET request on endpoint.

```
renault-api http get [OPTIONS] ENDPOINT
```

Arguments

ENDPOINT

Required argument

post

Process HTTP POST request on endpoint.

```
renault-api http post [OPTIONS] ENDPOINT JSON_BODY
```

Arguments

ENDPOINT

Required argument

JSON_BODY

Required argument

post-file

Process HTTP POST request on endpoint.

```
renault-api http post-file [OPTIONS] ENDPOINT JSON_BODY
```

Arguments

ENDPOINT

Required argument

JSON_BODY

Required argument

hvac

HVAC functionality.

```
renault-api hvac [OPTIONS] COMMAND [ARGS]...
```

cancel

Cancel air conditioning.

```
renault-api hvac cancel [OPTIONS]
```

history

Display air conditioning history.

```
renault-api hvac history [OPTIONS]
```

Options

--period <period>

Period over which to aggregate.

Options day | month

--to <end>

Required Date to finish showing history at (cannot be in the future)

--from <start>

Required Date to start showing history from

sessions

Display air conditioning sessions.

```
renault-api hvac sessions [OPTIONS]
```

Options

--to <end>

Required Date to finish showing history at (cannot be in the future)

--from <start>

Required Date to start showing history from

start

Start air conditioning.

```
renault-api hvac start [OPTIONS]
```

Options

--temperature <temperature>

Required Target temperature (in Celsius)

--at <at>

Date/time at which to complete preconditioning (defaults to immediate if not given). You can use times like 'in 5 minutes' or 'tomorrow at 9am'.

login

Login to Renault.

```
renault-api login [OPTIONS]
```

Options

--user <user>

--password <password>

Renault API

reset

Clear all credentials/settings from the credential store.

```
renault-api reset [OPTIONS]
```

set

Store specified settings into credential store.

```
renault-api set [OPTIONS]
```

Options

--locale <locale>

API locale (eg. fr_FR)

--account <account>

Kamereon account ID to use for future calls

--vin <vin>

Vehicle VIN to use for future calls

settings

Display the current configuration keys.

```
renault-api settings [OPTIONS]
```

status

Display vehicle status.

```
renault-api status [OPTIONS]
```

vehicle

Display vehicle details.

```
renault-api vehicle [OPTIONS]
```

vehicles

Display list of vehicles.

```
renault-api vehicles [OPTIONS]
```

9.2 Renault high-level API Reference

- *Session*
- *Client*
- *Account*
- *Vehicle*

9.2.1 Session

Session provider for interaction with Renault servers.

```
class renault_api.renault_session.RenaultSession(websession, locale=None, country=None,
                                                locale_details=None, credential_store=None)
```

Renault session for interaction with Renault servers.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **locale** (*Optional[str]*) –
- **country** (*Optional[str]*) –
- **locale_details** (*Optional[Dict[str, str]]*) –
- **credential_store** (*Optional[renault_api.credential_store.CredentialStore]*) –

Return type None

```
async get_account_vehicles(account_id)
```

GET to /accounts/{account_id}/vehicles.

Parameters **account_id** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehiclesResponse*

```
async get_person()
```

GET to /persons/{person_id}.

Return type *renault_api.kamereon.models.KamereonPersonResponse*

```
async get_vehicle_contracts(account_id, vin)
```

GET to /v{endpoint_version}/cars/{vin}/contracts.

Parameters

- **account_id** (*str*) –

- **vin** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleContractsResponse*

async get_vehicle_data(*account_id, vin, endpoint, params=None, *, adapter_type='kca'*)

GET to `/v{endpoint_version}/cars/{vin}/{endpoint}`.

Parameters

- **account_id** (*str*) –
- **vin** (*str*) –
- **endpoint** (*str*) –
- **params** (*Optional[Dict[str, str]]*) –
- **adapter_type** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleDataResponse*

async get_vehicle_details(*account_id, vin*)

GET to `/accounts/{account_id}/vehicles/{vin}/details`.

Parameters

- **account_id** (*str*) –
- **vin** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleDetailsResponse*

async http_request(*method, endpoint, json=None*)

GET to specified endpoint.

Parameters

- **method** (*str*) –
- **endpoint** (*str*) –
- **json** (*Optional[Dict[str, Any]]*) –

Return type *renault_api.kamereon.models.KamereonResponse*

async login(*login_id, password*)

Attempt login on Gigya.

Parameters

- **login_id** (*str*) –
- **password** (*str*) –

Return type `None`

async set_vehicle_action(*account_id, vin, endpoint, attributes, *, adapter_type='kca'*)

POST to `/v{endpoint_version}/cars/{vin}/{endpoint}`.

Parameters

- **account_id** (*str*) –
- **vin** (*str*) –
- **endpoint** (*str*) –
- **attributes** (*Dict[str, Any]*) –

- **adapter_type** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleDataResponse*

9.2.2 Client

Client for Renault API.

class `renault_api.renault_client.RenaultClient` (*session=None, websession=None, locale=None, country=None, locale_details=None, credential_store=None*)

Proxy to a Renault profile.

Parameters

- **session** (*Optional[renault_api.renault_session.RenaultSession]*) –
- **websession** (*Optional[aiohttp.client.ClientSession]*) –
- **locale** (*Optional[str]*) –
- **country** (*Optional[str]*) –
- **locale_details** (*Optional[Dict[str, str]]*) –
- **credential_store** (*Optional[renault_api.credential_store.CredentialStore]*) –

Return type *None*

async `get_api_account` (*account_id*)

Get account proxy for specified account id.

Parameters **account_id** (*str*) –

Return type *renault_api.renault_account.RenaultAccount*

async `get_api_accounts` ()

Get account proxies.

Return type *List[renault_api.renault_account.RenaultAccount]*

async `get_person` ()

GET to /persons/{person_id}.

Return type *renault_api.kamereon.models.KamereonPersonResponse*

property session: *renault_api.renault_session.RenaultSession*

Get session provider.

9.2.3 Account

Client for Renault API.

class `renault_api.renault_account.RenaultAccount` (*account_id, session=None, websession=None, locale=None, country=None, locale_details=None, credential_store=None*)

Proxy to a Renault account.

Parameters

- **account_id** (*str*) –
- **session** (*Optional[renewalt_api.renewalt_session.RenaultSession]*) –
- **websession** (*Optional[aiohttp.client.ClientSession]*) –
- **locale** (*Optional[str]*) –
- **country** (*Optional[str]*) –
- **locale_details** (*Optional[Dict[str, str]]*) –
- **credential_store** (*Optional[renewalt_api.credential_store.CredentialStore]*) –

Return type `None`

property account_id: `str`

Get account id.

async get_api_vehicle(*vin*)

Get vehicle proxy for specified vin.

Parameters **vin** (*str*) –

Return type *renewalt_api.renewalt_vehicle.RenaultVehicle*

async get_api_vehicles()

Get vehicle proxies.

Return type *List[renewalt_api.renewalt_vehicle.RenaultVehicle]*

async get_vehicles()

GET to /accounts/{account_id}/vehicles.

Return type *renewalt_api.kamereon.models.KamereonVehiclesResponse*

property session: *renewalt_api.renewalt_session.RenaultSession*

Get session provider.

9.2.4 Vehicle

Client for Renault API.

```
class renewalt_api.renewalt_vehicle.RenaultVehicle(account_id, vin, *, session=None,  
websession=None, locale=None, country=None,  
locale_details=None, credential_store=None,  
vehicle_details=None, car_adapter=None)
```

Proxy to a Renault vehicle.

Parameters

- **account_id** (*str*) –
- **vin** (*str*) –
- **session** (*Optional[renewalt_api.renewalt_session.RenaultSession]*) –
- **websession** (*Optional[aiohttp.client.ClientSession]*) –
- **locale** (*Optional[str]*) –
- **country** (*Optional[str]*) –

- **locale_details** (*Optional[Dict[str, str]]*) –
- **credential_store** (*Optional[renault_api.credential_store.CredentialStore]*) –
- **vehicle_details** (*Optional[renault_api.kamereon.models.KamereonVehicleDetails]*) –
- **car_adapter** (*Optional[renault_api.kamereon.models.KamereonVehicleCarAdapterData]*) –

Return type None

property account_id: str

Get account id.

async get_battery_status()

Get vehicle battery status.

Return type *renault_api.kamereon.models.KamereonVehicleBatteryStatusData*

async get_car_adapter()

Get vehicle car adapter details.

Return type *renault_api.kamereon.models.KamereonVehicleCarAdapterData*

async get_charge_history(start, end, period)

Get vehicle charge history.

Parameters

- **start** (*datetime.datetime*) –
- **end** (*datetime.datetime*) –
- **period** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleChargeHistoryData*

async get_charge_mode()

Get vehicle charge mode.

Return type *renault_api.kamereon.models.KamereonVehicleChargeModeData*

async get_charges(start, end)

Get vehicle charges.

Parameters

- **start** (*datetime.datetime*) –
- **end** (*datetime.datetime*) –

Return type *renault_api.kamereon.models.KamereonVehicleChargesData*

async get_charging_settings()

Get vehicle charging settings.

Return type *renault_api.kamereon.models.KamereonVehicleChargingSettingsData*

async get_cockpit()

Get vehicle cockpit.

Return type *renault_api.kamereon.models.KamereonVehicleCockpitData*

async get_contracts()

Get vehicle contracts.

Return type *List[renault_api.kamereon.models.KamereonVehicleContract]*

async get_details()

Get vehicle details.

Return type *renault_api.kamereon.models.KamereonVehicleDetails*

async get_hvac_history(start, end, period)

Get vehicle hvac history.

Parameters

- **start** (*datetime.datetime*) –
- **end** (*datetime.datetime*) –
- **period** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleHvacHistoryData*

async get_hvac_sessions(start, end)

Get vehicle hvac sessions.

Parameters

- **start** (*datetime.datetime*) –
- **end** (*datetime.datetime*) –

Return type *renault_api.kamereon.models.KamereonVehicleHvacSessionsData*

async get_hvac_settings()

Get vehicle hvac settings (schedule+mode).

Return type *renault_api.kamereon.models.KamereonVehicleHvacSettingsData*

async get_hvac_status()

Get vehicle hvac status.

Return type *renault_api.kamereon.models.KamereonVehicleHvacStatusData*

async get_location()

Get vehicle location.

Return type *renault_api.kamereon.models.KamereonVehicleLocationData*

async get_lock_status()

Get vehicle lock status.

Return type *renault_api.kamereon.models.KamereonVehicleLockStatusData*

async get_notification_settings()

Get vehicle notification settings.

Return type *renault_api.kamereon.models.KamereonVehicleNotificationSettingsData*

async get_res_state()

Get vehicle res state.

Return type *renault_api.kamereon.models.KamereonVehicleResStateData*

async has_contract_for_endpoint(*endpoint*)
 Check if vehicle has contract for endpoint.
Parameters **endpoint** (*str*) –
Return type bool

property session: *renault_api.renault_session.RenaultSession*
 Get session.

async set_ac_start(*temperature, when=None*)
 Start vehicle ac.
Parameters

- **temperature** (*float*) –
- **when** (*Optional[datetime.datetime]*) –

Return type *renault_api.kamereon.models.KamereonVehicleHvacStartActionData*

async set_ac_stop()
 Stop vehicle ac.
Return type *renault_api.kamereon.models.KamereonVehicleHvacStartActionData*

async set_charge_mode(*charge_mode*)
 Set vehicle charge mode.
Parameters **charge_mode** (*str*) –
Return type *renault_api.kamereon.models.KamereonVehicleChargeModeActionData*

async set_charge_schedules(*schedules*)
 Set vehicle charge schedules.
Parameters **schedules** (*List[renault_api.kamereon.models.ChargeSchedule]*) –
Return type *renault_api.kamereon.models.KamereonVehicleChargeScheduleActionData*

async set_charge_start()
 Start vehicle charge.
Return type *renault_api.kamereon.models.KamereonVehicleChargingStartActionData*

async set_charge_stop()
 Start vehicle charge.
Return type *renault_api.kamereon.models.KamereonVehicleChargingStartActionData*

async set_hvac_schedules(*schedules*)
 Set vehicle charge schedules.
Parameters **schedules** (*List[renault_api.kamereon.models.HvacSchedule]*) –
Return type *renault_api.kamereon.models.KamereonVehicleHvacScheduleActionData*

async supports_endpoint(*endpoint*)
 Check if vehicle supports endpoint.
Parameters **endpoint** (*str*) –
Return type bool

property vin: str

Get vin.

async warn_on_method(*method*)

Log a warning if the method requires it.

Parameters *method* (str) –

Return type None

9.3 Kamereon low-level API Reference

- *Core*
- *Data models*

9.3.1 Core

Kamereon API.

`renault_api.kamereon.get_account_url`(*root_url*, *account_id*)

Get the url to the account.

Parameters

- **root_url** (str) –
- **account_id** (str) –

Return type str

async `renault_api.kamereon.get_account_vehicles`(*websession*, *root_url*, *api_key*, *gigya_jwt*, *country*, *account_id*)

GET to `/accounts/{account_id}/vehicles`.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (str) –
- **api_key** (str) –
- **gigya_jwt** (str) –
- **country** (str) –
- **account_id** (str) –

Return type `renault_api.kamereon.models.KamereonVehiclesResponse`

`renault_api.kamereon.get_car_adapter_url`(*root_url*, *account_id*, *version*, *vin*, *, *adapter_type*='kca')

Get the url to the car adapter.

Parameters

- **root_url** (str) –
- **account_id** (str) –

- **version** (*int*) –
- **vin** (*str*) –
- **adapter_type** (*str*) –

Return type *str*

`renault_api.kamereon.get_commerce_url(root_url)`

Get the Kamereon base commerce url.

Parameters `root_url` (*str*) –

Return type *str*

`renault_api.kamereon.get_contracts_url(root_url, account_id, vin)`

Get the url to the car contracts.

Parameters

- **root_url** (*str*) –
- **account_id** (*str*) –
- **vin** (*str*) –

Return type *str*

`async renault_api.kamereon.get_person(webssession, root_url, api_key, gigya_jwt, country, person_id)`

GET to /persons/{person_id}.

Parameters

- **webssession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **gigya_jwt** (*str*) –
- **country** (*str*) –
- **person_id** (*str*) –

Return type *renault_api.kamereon.models.KamereonPersonResponse*

`renault_api.kamereon.get_person_url(root_url, person_id)`

Get the url to the person.

Parameters

- **root_url** (*str*) –
- **person_id** (*str*) –

Return type *str*

`renault_api.kamereon.get_required_contracts(endpoint)`

Get the required contracts for the specified endpoint.

Parameters `endpoint` (*str*) –

Return type *str*

async `renault_api.kamereon.get_vehicle_contracts`(*websession, root_url, api_key, gigya_jwt, country, locale, account_id, vin*)

GET to `/accounts/{accountId}/vehicles/{vin}/contracts`.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **gigya_jwt** (*str*) –
- **country** (*str*) –
- **locale** (*str*) –
- **account_id** (*str*) –
- **vin** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleContractsResponse*

async `renault_api.kamereon.get_vehicle_data`(*websession, root_url, api_key, gigya_jwt, country, account_id, vin, endpoint, endpoint_version=None, params=None, *, adapter_type='kca'*)

GET to `/v{endpoint_version}/cars/{vin}/{endpoint}`.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **gigya_jwt** (*str*) –
- **country** (*str*) –
- **account_id** (*str*) –
- **vin** (*str*) –
- **endpoint** (*str*) –
- **endpoint_version** (*Optional[int]*) –
- **params** (*Optional[Dict[str, str]]*) –
- **adapter_type** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleDataResponse*

async `renault_api.kamereon.get_vehicle_details`(*websession, root_url, api_key, gigya_jwt, country, account_id, vin*)

GET to `/accounts/{account_id}/vehicles/{vin}/details`.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **gigya_jwt** (*str*) –

- **country** (*str*) –
- **account_id** (*str*) –
- **vin** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleDetailsResponse*

`renault_api.kamereon.has_required_contracts(contracts, endpoint)`

Check if vehicle has contract for endpoint.

Parameters

- **contracts** (*List[renault_api.kamereon.models.KamereonVehicleContract]*) –
- **endpoint** (*str*) –

Return type `bool`

`async renault_api.kamereon.request(websession, method, url, api_key, gigya_jwt, params, json=None, schema=None, *, wrap_array_in=None)`

Process Kamereon HTTP request.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **method** (*str*) –
- **url** (*str*) –
- **api_key** (*str*) –
- **gigya_jwt** (*str*) –
- **params** (*Dict[str, str]*) –
- **json** (*Optional[Dict[str, Any]]*) –
- **schema** (*Optional[marshmallow.schema.Schema]*) –
- **wrap_array_in** (*Optional[str]*) –

Return type *renault_api.kamereon.models.KamereonResponse*

`async renault_api.kamereon.set_vehicle_action(websession, root_url, api_key, gigya_jwt, country, account_id, vin, endpoint, attributes, endpoint_version=None, data_type=None, *, adapter_type='kca')`

POST to `/v{endpoint_version}/cars/{vin}/{endpoint}`.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **gigya_jwt** (*str*) –
- **country** (*str*) –
- **account_id** (*str*) –
- **vin** (*str*) –
- **endpoint** (*str*) –

- **attributes** (*Dict[str, Any]*) –
- **endpoint_version** (*Optional[int]*) –
- **data_type** (*Optional[Dict[str, Any]]*) –
- **adapter_type** (*str*) –

Return type *renault_api.kamereon.models.KamereonVehicleDataResponse*

9.3.2 Data models

Kamereon models.

class `renault_api.kamereon.models.ChargeDaySchedule`(*raw_data, startTime, duration*)

Kamereon vehicle charge schedule for day.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **startTime** (*Optional[str]*) –
- **duration** (*Optional[int]*) –

Return type *None*

for_json()

Create dict for json.

Return type *Dict[str, Any]*

get_end_time()

Get end time.

Return type *Optional[str]*

class `renault_api.kamereon.models.ChargeSchedule`(*raw_data, id, activated, monday, tuesday, wednesday, thursday, friday, saturday, sunday*)

Kamereon vehicle charge schedule for week.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **id** (*Optional[int]*) –
- **activated** (*Optional[bool]*) –
- **monday** (*Optional[renault_api.kamereon.models.ChargeDaySchedule]*) –
- **tuesday** (*Optional[renault_api.kamereon.models.ChargeDaySchedule]*) –
- **wednesday** (*Optional[renault_api.kamereon.models.ChargeDaySchedule]*) –
- **thursday** (*Optional[renault_api.kamereon.models.ChargeDaySchedule]*) –
- **friday** (*Optional[renault_api.kamereon.models.ChargeDaySchedule]*) –
- **saturday** (*Optional[renault_api.kamereon.models.ChargeDaySchedule]*) –
- **sunday** (*Optional[renault_api.kamereon.models.ChargeDaySchedule]*) –

Return type *None*

for_json()

Create dict for json.

Return type *Dict[str, Any]*

class `renault_api.kamereon.models.HvacDaySchedule`(*raw_data, readyAtTime*)

Kamereon vehicle hvac schedule for day.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **readyAtTime** (*Optional[str]*) –

Return type None

for_json()

Create dict for json.

Return type *Dict[str, Optional[str]]*

class `renault_api.kamereon.models.HvacSchedule`(*raw_data, id, activated, monday, tuesday, wednesday, thursday, friday, saturday, sunday*)

Kamereon vehicle hvac schedule for week.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **id** (*Optional[int]*) –
- **activated** (*Optional[bool]*) –
- **monday** (*Optional[renault_api.kamereon.models.HvacDaySchedule]*) –
- **tuesday** (*Optional[renault_api.kamereon.models.HvacDaySchedule]*) –
- **wednesday** (*Optional[renault_api.kamereon.models.HvacDaySchedule]*) –
- **thursday** (*Optional[renault_api.kamereon.models.HvacDaySchedule]*) –
- **friday** (*Optional[renault_api.kamereon.models.HvacDaySchedule]*) –
- **saturday** (*Optional[renault_api.kamereon.models.HvacDaySchedule]*) –
- **sunday** (*Optional[renault_api.kamereon.models.HvacDaySchedule]*) –

Return type None

for_json()

Create dict for json.

Return type *Dict[str, Any]*

class `renault_api.kamereon.models.KamereonPersonAccount`(*raw_data, accountId, accountType, accountStatus*)

Kamereon person account data.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **accountId** (*Optional[str]*) –
- **accountType** (*Optional[str]*) –
- **accountStatus** (*Optional[str]*) –

Return type None

class `renault_api.kamereon.models.KamereonPersonResponse`(*raw_data, errors, accounts*)

Kamereon response to GET on /persons/{gigya_person_id}.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errors** (*Optional[List[renault_api.kamereon.models.KamereonResponseError]*) –
- **accounts** (*Optional[List[renault_api.kamereon.models.KamereonPersonAccount]*) –

Return type None

class `renault_api.kamereon.models.KamereonResponse`(*raw_data, errors*)

Kamereon response.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errors** (*Optional[List[renault_api.kamereon.models.KamereonResponseError]*) –

Return type None

raise_for_error_code()

Raise exception if errors found in the response.

Return type None

class `renault_api.kamereon.models.KamereonResponseError`(*raw_data, errorCode, errorMessage*)

Kamereon response error.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errorCode** (*Optional[str]*) –
- **errorMessage** (*Optional[str]*) –

Return type None

get_error_details()

Extract the error details sometimes hidden inside nested JSON.

Return type *Optional[str]*

raise_for_error_code()

Raise exception from response error.

Return type None

```
class renault_api.kamereon.models.KamereonVehicleBatteryStatusData(raw_data, timestamp,
                                                                    batteryLevel,
                                                                    batteryTemperature,
                                                                    batteryAutonomy,
                                                                    batteryCapacity,
                                                                    batteryAvailableEnergy,
                                                                    plugStatus, chargingStatus,
                                                                    chargingRemainingTime,
                                                                    chargingInstantaneous-
                                                                    Power)
```

Kamereon vehicle battery-status data.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **timestamp** (*Optional[str]*) –
- **batteryLevel** (*Optional[int]*) –
- **batteryTemperature** (*Optional[int]*) –
- **batteryAutonomy** (*Optional[int]*) –
- **batteryCapacity** (*Optional[int]*) –
- **batteryAvailableEnergy** (*Optional[int]*) –
- **plugStatus** (*Optional[int]*) –
- **chargingStatus** (*Optional[float]*) –
- **chargingRemainingTime** (*Optional[int]*) –
- **chargingInstantaneousPower** (*Optional[float]*) –

Return type None

get_charging_status()

Return charging status.

Return type *Optional[renault_api.kamereon.enums.ChargeState]*

get_plug_status()

Return plug status.

Return type *Optional[renault_api.kamereon.enums.PlugState]*

```
class renault_api.kamereon.models.KamereonVehicleCarAdapterData(raw_data, vin, vehicleId,
                                                                batteryCode, brand,
                                                                canGeneration, carGateway,
                                                                deliveryCountry, deliveryDate,
                                                                energy, engineType, familyCode,
                                                                firstRegistrationDate, gearbox,
                                                                modelCode, modelCodeDetail,
                                                                modelName, radioType, region,
                                                                registrationCountry,
                                                                registrationNumber, tcuCode,
                                                                versionCode, privacyMode,
                                                                privacyModeUpdateDate,
                                                                svtFlag, svtBlockFlag)
```

Kamereon vehicle data hvac-status attributes.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **vin** (*Optional[str]*) –
- **vehicleId** (*Optional[int]*) –
- **batteryCode** (*Optional[str]*) –
- **brand** (*Optional[str]*) –
- **canGeneration** (*Optional[str]*) –
- **carGateway** (*Optional[str]*) –
- **deliveryCountry** (*Optional[str]*) –
- **deliveryDate** (*Optional[str]*) –
- **energy** (*Optional[str]*) –
- **engineType** (*Optional[str]*) –
- **familyCode** (*Optional[str]*) –
- **firstRegistrationDate** (*Optional[str]*) –
- **gearbox** (*Optional[str]*) –
- **modelCode** (*Optional[str]*) –
- **modelCodeDetail** (*Optional[str]*) –
- **modelName** (*Optional[str]*) –
- **radioType** (*Optional[str]*) –
- **region** (*Optional[str]*) –
- **registrationCountry** (*Optional[str]*) –
- **registrationNumber** (*Optional[str]*) –
- **tcuCode** (*Optional[str]*) –
- **versionCode** (*Optional[str]*) –
- **privacyMode** (*Optional[str]*) –
- **privacyModeUpdateDate** (*Optional[str]*) –
- **svtFlag** (*Optional[bool]*) –
- **svtBlockFlag** (*Optional[bool]*) –

Return type None

controls_action_via_kcm(*action*)

Return True if model uses endpoint via kcm.

Parameters **action** (*str*) –

Return type bool

reports_charging_power_in_watts()

Return True if model reports chargingInstantaneousPower in watts.

Return type bool

supports_endpoint(*endpoint*)

Return True if model supports specified endpoint.

Parameters **endpoint** (*str*) –

Return type bool

uses_electricity()

Return True if model uses electricity.

Return type bool

uses_fuel()

Return True if model uses fuel.

Return type bool

class `renault_api.kamereon.models.KamereonVehicleChargeHistoryData`(*raw_data*)

Kamereon vehicle data charge-history attributes.

Parameters **raw_data** (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleChargeModeActionData`(*raw_data*)

Kamereon vehicle action data charge-mode attributes.

Parameters **raw_data** (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleChargeModeData`(*raw_data, chargeMode*)

Kamereon vehicle data charge-mode attributes.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **chargeMode** (*Optional[str]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleChargeScheduleActionData`(*raw_data*)

Kamereon vehicle action data charge-schedule attributes.

Parameters **raw_data** (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleChargesData`(*raw_data*)

Kamereon vehicle data charges attributes.

Parameters **raw_data** (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleChargingSettingsData`(*raw_data, mode, schedules*)

Kamereon vehicle data charging-settings attributes.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **mode** (*Optional[str]*) –

- **schedules** (*Optional[List[renault_api.kamereon.models.ChargeSchedule]]*)

–

Return type None

update(*args*)

Update schedule.

Parameters **args** (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleChargingStartActionData`(*raw_data*)

Kamereon vehicle action data charging-start attributes.

Parameters **raw_data** (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleCockpitData`(*raw_data*, *fuelAutonomy*,
fuelQuantity, *totalMileage*)

Kamereon vehicle data cockpit attributes.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **fuelAutonomy** (*Optional[float]*) –
- **fuelQuantity** (*Optional[float]*) –
- **totalMileage** (*Optional[float]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleContract`(*raw_data*, *type*, *contractId*, *code*, *group*,
durationMonths, *startDate*, *endDate*,
status, *statusLabel*, *description*)

Kamereon vehicle contract.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **type** (*Optional[str]*) –
- **contractId** (*Optional[str]*) –
- **code** (*Optional[str]*) –
- **group** (*Optional[str]*) –
- **durationMonths** (*Optional[int]*) –
- **startDate** (*Optional[str]*) –
- **endDate** (*Optional[str]*) –
- **status** (*Optional[str]*) –
- **statusLabel** (*Optional[str]*) –
- **description** (*Optional[str]*) –

Return type None


```
class renauld_api.kamereon.models.KamereonVehicleContractsResponse(raw_data, errors,
                                                                    contractList)
```

Kamereon response to GET on /accounts/{accountId}/vehicles/{vin}/contracts.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errors** (*Optional[List[reanauld_api.kamereon.models.KamereonResponseError]]*) –
- **contractList** (*Optional[List[reanauld_api.kamereon.models.KamereonVehicleContract]]*) –

Return type None

```
class renauld_api.kamereon.models.KamereonVehicleData(raw_data, type, id, attributes)
```

Kamereon vehicle data.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **type** (*Optional[str]*) –
- **id** (*Optional[str]*) –
- **attributes** (*Optional[Dict[str, Any]]*) –

Return type None

```
class renauld_api.kamereon.models.KamereonVehicleDataAttributes(raw_data)
```

Kamereon vehicle data attributes.

Parameters **raw_data** (*Dict[str, Any]*) –

Return type None

```
class renauld_api.kamereon.models.KamereonVehicleDataResponse(raw_data, errors, data)
```

Kamereon response to GET/POST on .../cars/{vin}/{type}.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errors** (*Optional[List[reanauld_api.kamereon.models.KamereonResponseError]]*) –
- **data** (*Optional[reanauld_api.kamereon.models.KamereonVehicleData]*) –

Return type None

```
get_attributes(schema)
```

Return jwt token.

Parameters **schema** (*marshmallow.schema.Schema*) –

Return type *Optional[reanauld_api.kamereon.models.KamereonVehicleDataAttributes]*

```
class renauld_api.kamereon.models.KamereonVehicleDetails(raw_data, vin, registrationNumber,
                                                           radioCode, brand, model, energy,
                                                           engineEnergyType)
```

Kamereon vehicle details.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **vin** (*Optional[str]*) –
- **registrationNumber** (*Optional[str]*) –
- **radioCode** (*Optional[str]*) –
- **brand** (*Optional[renewalt_api.kamereon.models.KamereonVehicleDetailsGroup]*) –
- **model** (*Optional[renewalt_api.kamereon.models.KamereonVehicleDetailsGroup]*) –
- **energy** (*Optional[renewalt_api.kamereon.models.KamereonVehicleDetailsGroup]*) –
- **engineEnergyType** (*Optional[str]*) –

Return type None

controls_action_via_kcm(*action*)

Return True if model uses endpoint via kcm.

Parameters **action** (*str*) –

Return type bool

get_brand_label()

Return vehicle model label.

Return type *Optional[str]*

get_energy_code()

Return vehicle energy code.

Return type *Optional[str]*

get_model_code()

Return vehicle model code.

Return type *Optional[str]*

get_model_label()

Return vehicle model label.

Return type *Optional[str]*

reports_charge_session_durations_in_minutes()

Return True if model reports history durations in minutes.

Return type bool

reports_charging_power_in_watts()

Return True if model reports chargingInstantaneousPower in watts.

Return type bool

supports_endpoint(*endpoint*)

Return True if model supports specified endpoint.

Parameters **endpoint** (*str*) –

Return type bool

uses_electricity()

Return True if model uses electricity.

Return type bool

uses_fuel()

Return True if model uses fuel.

Return type bool

warns_on_method(*method*)

Return warning message if model trigger a warning on the method call.

Parameters **method** (*str*) –

Return type *Optional*[*str*]

class `renault_api.kamereon.models.KamereonVehicleDetailsGroup`(*raw_data*, *code*, *label*, *group*)

Kamereon vehicle details group data.

Parameters

- **raw_data** (*Dict*[*str*, *Any*]) –
- **code** (*Optional*[*str*]) –
- **label** (*Optional*[*str*]) –
- **group** (*Optional*[*str*]) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleDetailsResponse`(*raw_data*, *vin*,
registrationNumber, *radioCode*,
brand, *model*, *energy*,
engineEnergyType, *errors*)

Kamereon response to GET on /accounts/{account_id}/vehicles/{vin}/details.

Parameters

- **raw_data** (*Dict*[*str*, *Any*]) –
- **vin** (*Optional*[*str*]) –
- **registrationNumber** (*Optional*[*str*]) –
- **radioCode** (*Optional*[*str*]) –
- **brand** (*Optional*[`renault_api.kamereon.models.KamereonVehicleDetailsGroup`]) –
- **model** (*Optional*[`renault_api.kamereon.models.KamereonVehicleDetailsGroup`]) –
- **energy** (*Optional*[`renault_api.kamereon.models.KamereonVehicleDetailsGroup`]) –
- **engineEnergyType** (*Optional*[*str*]) –
- **errors** (*Optional*[*List*[`renault_api.kamereon.models.KamereonResponseError`]]) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleHvacHistoryData`(*raw_data*)

Kamereon vehicle data hvac-history attributes.

Parameters `raw_data` (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleHvacModeActionData`(*raw_data*)

Kamereon vehicle action data hvac-mode attributes.

Parameters `raw_data` (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleHvacScheduleActionData`(*raw_data*)

Kamereon vehicle action data hvac-schedule attributes.

Parameters `raw_data` (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleHvacSessionsData`(*raw_data*)

Kamereon vehicle data hvac-sessions attributes.

Parameters `raw_data` (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleHvacSettingsData`(*raw_data, mode, schedules*)

Kamereon vehicle data hvac-settings (mode+schedules) attributes.

Parameters

- `raw_data` (*Dict[str, Any]*) –
- `mode` (*Optional[str]*) –
- `schedules` (*Optional[List[renault_api.kamereon.models.HvacSchedule]]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleHvacStartActionData`(*raw_data*)

Kamereon vehicle action data hvac-start attributes.

Parameters `raw_data` (*Dict[str, Any]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehicleHvacStatusData`(*raw_data, lastUpdateTime, externalTemperature, hvacStatus, nextHvacStartDate, socThreshold*)

Kamereon vehicle data hvac-status attributes.

Parameters

- `raw_data` (*Dict[str, Any]*) –
- `lastUpdateTime` (*Optional[str]*) –
- `externalTemperature` (*Optional[float]*) –
- `hvacStatus` (*Optional[str]*) –
- `nextHvacStartDate` (*Optional[str]*) –

- **socThreshold** (*Optional[float]*) –

Return type None

```
class renauld_api.kamereon.models.KamereonVehicleLocationData(raw_data, lastUpdateTime,
                                                            gpsLatitude, gpsLongitude)
```

Kamereon vehicle data location attributes.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **lastUpdateTime** (*Optional[str]*) –
- **gpsLatitude** (*Optional[float]*) –
- **gpsLongitude** (*Optional[float]*) –

Return type None

```
class renauld_api.kamereon.models.KamereonVehicleLockStatusData(raw_data, lockStatus,
                                                                doorStatusRearLeft,
                                                                doorStatusRearRight,
                                                                doorStatusDriver,
                                                                doorStatusPassenger,
                                                                hatchStatus, lastUpdateTime)
```

Kamereon vehicle data lock-status attributes.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **lockStatus** (*Optional[str]*) –
- **doorStatusRearLeft** (*Optional[str]*) –
- **doorStatusRearRight** (*Optional[str]*) –
- **doorStatusDriver** (*Optional[str]*) –
- **doorStatusPassenger** (*Optional[str]*) –
- **hatchStatus** (*Optional[str]*) –
- **lastUpdateTime** (*Optional[str]*) –

Return type None

```
class renauld_api.kamereon.models.KamereonVehicleNotificationSettingsData(raw_data)
```

Kamereon vehicle data notification-settings attributes.

Parameters **raw_data** (*Dict[str, Any]*) –

Return type None

```
class renauld_api.kamereon.models.KamereonVehicleResStateData(raw_data, details, code)
```

Kamereon vehicle data res-set attributes.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **details** (*Optional[str]*) –
- **code** (*Optional[str]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehiclesLink`(*raw_data, vin, vehicleDetails*)

Kamereon vehicles link data.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **vin** (*Optional[str]*) –
- **vehicleDetails** (*Optional[renault_api.kamereon.models.KamereonVehicleDetails]*) –

Return type None

class `renault_api.kamereon.models.KamereonVehiclesResponse`(*raw_data, errors, accountId, country, vehicleLinks*)

Kamereon response to GET on `/accounts/{account_id}/vehicles`.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errors** (*Optional[List[renault_api.kamereon.models.KamereonResponseError]*) –
- **accountId** (*Optional[str]*) –
- **country** (*Optional[str]*) –
- **vehicleLinks** (*Optional[List[renault_api.kamereon.models.KamereonVehiclesLink]*) –

Return type None

9.4 Gigya low-level authentication API Reference

- *Core*
- *Data models*

9.4.1 Core

Gigya API.

async `renault_api.gigya.get_account_info`(*websession, root_url, api_key, login_token*)

Send POST to `/accounts.getAccountInfo`.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **login_token** (*str*) –

Return type `renault_api.gigya.models.GigyaGetAccountInfoResponse`

async `renault_api.gigya.get_jwt`(*websession, root_url, api_key, login_token*)

Send POST to /accounts.getJWT.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **login_token** (*str*) –

Return type *renault_api.gigya.models.GigyaGetJWTResponse*

async `renault_api.gigya.login`(*websession, root_url, api_key, login_id, password*)

Send POST to /accounts.login.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **root_url** (*str*) –
- **api_key** (*str*) –
- **login_id** (*str*) –
- **password** (*str*) –

Return type *renault_api.gigya.models.GigyaLoginResponse*

async `renault_api.gigya.request`(*websession, method, url, data, schema*)

Send request to Gigya.

Parameters

- **websession** (*aiohttp.client.ClientSession*) –
- **method** (*str*) –
- **url** (*str*) –
- **data** (*Dict[str, Any]*) –
- **schema** (*marshmallow.schema.Schema*) –

Return type *renault_api.gigya.models.GigyaResponse*

9.4.2 Data models

Gigya models.

class `renault_api.gigya.models.GigyaGetAccountInfoData`(*raw_data, personId*)

Gigya GetAccountInfo data details.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **personId** (*Optional[str]*) –

Return type `None`

```
class renaudt_api.gigya.models.GigyaGetAccountInfoResponse(raw_data, errorCode, errorDetails,  
data)
```

Gigya response to POST on /accounts.getAccountInfo.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errorCode** (*int*) –
- **errorDetails** (*Optional[str]*) –
- **data** (*Optional[renaudt_api.gigya.models.GigyaGetAccountInfoData]*) –

Return type None

```
get_person_id()
```

Return person id.

Return type str

```
class renaudt_api.gigya.models.GigyaGetJWTResponse(raw_data, errorCode, errorDetails, id_token)
```

Gigya response to POST on /accounts.getJWT.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errorCode** (*int*) –
- **errorDetails** (*Optional[str]*) –
- **id_token** (*Optional[str]*) –

Return type None

```
get_jwt()
```

Return jwt token.

Return type str

```
class renaudt_api.gigya.models.GigyaLoginResponse(raw_data, errorCode, errorDetails, sessionInfo)
```

Gigya response to POST on /accounts.login.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errorCode** (*int*) –
- **errorDetails** (*Optional[str]*) –
- **sessionInfo** (*Optional[renaudt_api.gigya.models.GigyaLoginSessionInfo]*) –

Return type None

```
get_session_cookie()
```

Return cookie value from session information.

Return type str

```
class renaudt_api.gigya.models.GigyaLoginSessionInfo(raw_data, cookieValue)
```

Gigya Login sessionInfo details.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **cookieValue** (*Optional[str]*) –

Return type None

class `renault_api.gigya.models.GigyaResponse`(*raw_data, errorCode, errorDetails*)

Gigya response.

Parameters

- **raw_data** (*Dict[str, Any]*) –
- **errorCode** (*int*) –
- **errorDetails** (*Optional[str]*) –

Return type None

raise_for_error_code()

Checks the response information.

Return type None

9.5 Renault endpoints

- *Vehicle data endpoints*
 - *battery-status*
 - *charge-history*
 - *charge-mode*
 - *charges*
 - *charging-settings*
 - *cockpit*
 - *hvac-history*
 - *hvac-sessions*
 - *hvac-status*
 - *hvac-settings*
 - *location*
 - *lock-status*
 - *notification-settings*
 - *res-state*
- *Action endpoints*
 - *actions/charge-mode*
 - *actions/charge-schedule*
 - *actions/charging-start*
 - *actions/hvac-start*

- *actions/hvac-schedule*
- *KCM Action endpoints*

This is a list of the endpoints available, and their characteristics.

9.5.1 Vehicle data endpoints

battery-status

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v2/cars/{vin}/battery-status

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "timestamp": "2020-01-12T21:40:16Z",
      "batteryLevel": 60,
      "batteryTemperature": 20,
      "batteryAutonomy": 141,
      "batteryCapacity": 0,
      "batteryAvailableEnergy": 31,
      "plugStatus": 1,
      "chargingStatus": 1.0,
      "chargingRemainingTime": 145,
      "chargingInstantaneousPower": 27.0
    }
  }
}
```

Note:

- batteryTemperature is not always present.
- batteryCapacity appears to always return 0.

On Zoe40 (model code X101VE):

- chargingInstantaneousPower gives value in watts.
- chargingStatus uses only a subset of ChargeStatus enum (NOT_IN_CHARGE = 0.0, CHARGE_IN_PROGRESS = 1.0, CHARGE_ERROR = -1.0)

On Zoe50 (model code X102VE):

- batteryTemperature appears completely wrong.
- chargingInstantaneousPower seems to return values in kilowatts, but the values still appear completely wrong.

charge-history

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/charge-history

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "chargeSummaries": [
        {
          "day": "20201208",
          "totalChargesNumber": 2,
          "totalChargesDuration": 495,
          "totalChargesErrors": 0
        },
        {
          "day": "20201205",
          "totalChargesNumber": 1,
          "totalChargesDuration": 657,
          "totalChargesErrors": 0
        }
      ]
    }
  }
}
```

charge-mode

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/charge-mode

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": { "chargeMode": "always" }
  }
}
```

charges

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/charges

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "charges": [
        {
          "chargeStartDate": "2020-11-11T00:31:03Z",
          "chargeEndDate": "2020-11-11T08:30:17Z",
          "chargeDuration": 479,
          "chargeStartBatteryLevel": 15,
          "chargeEndBatteryLevel": 74,
          "chargeBatteryLevelRecovered": 59,
          "chargePower": "slow",
          "chargeStartInstantaneousPower": 3100,
          "chargeEndStatus": "ok"
        }
      ]
    }
  }
}
```

charging-settings

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/charging-settings

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "mode": "scheduled",
      "schedules": [
        {
          "id": 1,
          "activated": true,
          "monday": {
            "startTime": "T12:00Z",
            "duration": 15
          },
          "tuesday": {
            "startTime": "T04:30Z",
            "duration": 420
          }
        }
      ]
    }
  }
}
```

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```

    "wednesday": {
      "startTime": "T22:30Z",
      "duration": 420
    },
    "thursday": {
      "startTime": "T22:00Z",
      "duration": 420
    },
    "friday": {
      "startTime": "T12:15Z",
      "duration": 15
    },
    "saturday": {
      "startTime": "T12:30Z",
      "duration": 30
    },
    "sunday": {
      "startTime": "T12:45Z",
      "duration": 45
    }
  }
}
]
}
}
}

```

```

{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "mode": "scheduled",
      "schedules": [
        {
          "id": 1,
          "activated": true,
          "monday": {
            "startTime": "T00:00Z",
            "duration": 450
          },
          "tuesday": {
            "startTime": "T00:00Z",
            "duration": 450
          },
          "wednesday": {
            "startTime": "T00:00Z",
            "duration": 450
          },
          "thursday": {
            "startTime": "T00:00Z",
            "duration": 450
          },
        },
      ],
    },
  },
}

```

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```
"friday": {
  "startTime": "T00:00Z",
  "duration": 450
},
"saturday": {
  "startTime": "T00:00Z",
  "duration": 450
},
"sunday": {
  "startTime": "T00:00Z",
  "duration": 450
}
},
{
  "id": 2,
  "activated": true,
  "monday": {
    "startTime": "T23:30Z",
    "duration": 15
  },
  "tuesday": {
    "startTime": "T23:30Z",
    "duration": 15
  },
  "wednesday": {
    "startTime": "T23:30Z",
    "duration": 15
  },
  "thursday": {
    "startTime": "T23:30Z",
    "duration": 15
  },
  "friday": {
    "startTime": "T23:30Z",
    "duration": 15
  },
  "saturday": {
    "startTime": "T23:30Z",
    "duration": 15
  },
  "sunday": {
    "startTime": "T23:30Z",
    "duration": 15
  }
},
{
  "id": 3,
  "activated": false
},
{
  "id": 4,
  "activated": false
}
```

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```
    },
    {
      "id": 5,
      "activated": false
    }
  ]
}
}
```

cockpit

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v2/cars/{vin}/cockpit

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777123",
    "attributes": {
      "fuelAutonomy": 35.0,
      "fuelQuantity": 3.0,
      "totalMileage": 5566.78
    }
  }
}
```

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "totalMileage": 49114.27
    }
  }
}
```

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": { "totalMileage": 49114.27 }
  }
}
```

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
```

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```
"fuelAutonomy": 0,  
"fuelQuantity": 0,  
"totalMileage": 5785.75  
}  
}  
}
```

hvac-history

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/hvac-history

Sample return: Sample data is not yet available for this endpoint.

Please check the [Contributor Guide](#) to provide a sample.

hvac-sessions

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/hvac-sessions

Sample return: Sample data is not yet available for this endpoint.

Please check the [Contributor Guide](#) to provide a sample.

hvac-status

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/hvac-status

Sample return:

```
{  
  "data": {  
    "type": "Car",  
    "id": "UU1AAAAA555777123",  
    "attributes": {  
      "socThreshold": 30.0,  
      "hvacStatus": "off",  
      "lastUpdateTime": "2020-12-03T00:00:00Z"  
    }  
  }  
}
```

```
{  
  "data": {  
    "type": "Car",  
    "id": "VF1AAAAA555777999",  
    "attributes": { "externalTemperature": 8.0, "hvacStatus": "off" }  
  }  
}
```



```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": { "socThreshold": 40, "hvacStatus": "on" }
  }
}
```

Note:

On Zoe40 (model code X101VE): hvacStatus seems to always report off, even when preconditioning is in progress.

On Zoe50 (model code X102VE): This endpoint seem to be unavailable and returns an error 'err.func.403': 'Operation not supported Operation not supported for this can (C1A)'.

hvac-settings

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/hvac-settings

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "dateTime": "2020-12-24T20:00:00.000Z",
      "mode": "scheduled",
      "schedules": [
        {
          "id": 1,
          "activated": false
        },
        {
          "id": 2,
          "activated": true,
          "wednesday": { "readyAtTime": "T15:15Z" },
          "friday": { "readyAtTime": "T15:15Z" }
        },
        {
          "id": 3,
          "activated": false
        },
        {
          "id": 4,
          "activated": false
        },
        {
          "id": 5,
          "activated": false
        }
      ]
    }
  }
}
```

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```
}
  ]
}
}
```

location

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/
location

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "gpsLatitude": 48.1234567,
      "gpsLongitude": 11.1234567,
      "lastUpdateTime": "2020-02-18T16:58:38Z"
    }
  }
}
```

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "gpsDirection": null,
      "gpsLatitude": 48.1234567,
      "gpsLongitude": 11.1234567,
      "lastUpdateTime": "2020-02-18T16:58:38Z"
    }
  }
}
```

lock-status

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/
lock-status

Sample return:

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "lockStatus": "locked",

```

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```
"doorStatusRearLeft": "closed",
"doorStatusRearRight": "closed",
"doorStatusDriver": "closed",
"doorStatusPassenger": "closed",
"hatchStatus": "closed",
"lastUpdateTime": "2022-02-02T13:51:13Z"
}
}
```

```
{
  "data": {
    "type": "Car",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "lockStatus": "unlocked",
      "doorStatusRearLeft": "closed",
      "doorStatusRearRight": "closed",
      "doorStatusDriver": "closed",
      "doorStatusPassenger": "closed",
      "hatchStatus": "closed",
      "lastUpdateTime": "2022-02-02T13:51:13Z"
    }
  }
}
```

notification-settings

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/notification-settings

Sample return: Sample data is not yet available for this endpoint.

Please check the [Contributor Guide](#) to provide a sample.

res-state

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/res-state

Sample return:

```
{
  "data": {
    "type": "ResState",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "details": "Stopped, ready for RES",
      "code": "10"
    }
  }
}
```

```
{
  "data": {
    "type": "ResState",
    "id": "VF1AAAAA555777999",
    "attributes": {
      "details": "Running",
      "code": "42"
    }
  }
}
```

9.5.2 Action endpoints

actions/charge-mode

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/actions/charge-mode

Sample payload: Sample payload is not yet available for this endpoint.

Please check the [Contributor Guide](#) to provide a sample.

actions/charge-schedule

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v2/cars/{vin}/actions/charge-schedule

Sample payload: Sample payload is not yet available for this endpoint.

Please check the [Contributor Guide](#) to provide a sample.

actions/charging-start

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/actions/charging-start

Sample payload: Start charge:

```
{
  "data": {
    "type": "ChargingStart",
    "attributes": {"action": "start"}
  }
}
```

Stop charge:

```
{
  "data": {
    "type": "ChargingStart",
    "attributes": {"action": "stop"}
  }
}
```

Please check the [Contributor Guide](#) to provide extra samples.

actions/hvac-start

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v1/cars/{vin}/actions/hvac-start

Sample payload: Sample payload is not yet available for this endpoint.

Please check the [Contributor Guide](#) to provide a sample.

Note:

On Zoe50 (model code X102VE): Payload {'action': 'cancel'} to stop HVAC does not create errors but has no effect on the vehicle (Renault side limitation).

actions/hvac-schedule

Base url: /commerce/v1/accounts/{account_id}/kamereon/kca/car-adapter/v2/cars/{vin}/actions/hvac-schedule

Sample payload: Sample payload is not yet available for this endpoint.

Please check the [Contributor Guide](#) to provide a sample.

9.5.3 KCM Action endpoints

9.6 Contributor Guide

Thank you for your interest in improving this project. This project is open-source under the [MIT license](#) and welcomes contributions in the form of bug reports, feature requests, and pull requests.

Here is a list of important resources for contributors:

- [Source Code](#)
- [Documentation](#)
- [Issue Tracker](#)
- [Code of Conduct](#)

9.6.1 How to report a bug

Report bugs on the [Issue Tracker](#).

When filing an issue, make sure to answer these questions:

- Which operating system and Python version are you using?
- Which version of this project are you using?
- What did you do?
- What did you expect to see?

- What did you see instead?

The best way to get your bug fixed is to provide a test case, and/or steps to reproduce the issue.

9.6.2 How to request a feature

Request features on the [Issue Tracker](#).

9.6.3 Providing samples

Providing samples for more vehicles helps us improve the library. If you have a vehicle for which we do not have the specifications yet, or if you have found a new feature for an existing vehicle, then please send us the samples.

- Generate a trace.
- Add the json file to the correct `test/fixtures/kamereon` subfolder.
- Ensure that `vin` starts with `VF1AAAA` _(we do not want the real VIN)_
- Ensure that `vehicleDetails.vin` also starts with `VF1AAAA` _(we do not want the real VIN)_
- Ensure that `vehicleDetails.registrationNumber` starts with `REG-` _(we do not want the real registration number)_
- Ensure that `vehicleDetails.radioCode` is equal to `1234` _(we do not want the real radio code)_
- Ensure that the json file passes pre-commit (can be parsed online via <https://codebeautify.org/jsonviewer>)
- Create a pull request

9.6.4 How to set up your development environment

You need Python 3.7+ and the following tools:

- Poetry
- Nox
- nox-poetry

WARNING: due to an open issue with Poetry, we recommend that you use the 1.0.10 version. You can install it with the command:

```
$ pipx install poetry==1.0.10
```

Install the package with development requirements:

```
$ poetry install --extras "cli"
```

You can now run an interactive Python session, or the command-line interface:

```
$ poetry run python
$ poetry run renault-api
```

9.6.5 How to test the project

Run the full test suite:

```
$ nox
```

List the available Nox sessions:

```
$ nox --list-sessions
```

You can also run a specific Nox session. For example, invoke the unit test suite like this:

```
$ nox --session=tests
```

Unit tests are located in the `tests` directory, and are written using the `pytest` testing framework.

9.6.6 How to submit changes

Open a [pull request](#) to submit changes to this project.

Your pull request needs to meet the following guidelines for acceptance:

- The Nox test suite must pass without errors and warnings.
- Include unit tests. This project maintains 100% code coverage.
- If your changes add functionality, update the documentation accordingly.

Feel free to submit early, though—we can always iterate on this.

To run linting and code formatting checks before committing your change, you can install `pre-commit` as a Git hook by running the following command:

```
$ nox --session=pre-commit -- install
```

It is recommended to open an issue before starting work on anything. This will allow a chance to talk it over with the owners and validate your approach.

9.7 Contributor Covenant Code of Conduct

9.7.1 Our Pledge

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

9.7.2 Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- Demonstrating empathy and kindness toward other people
- Being respectful of differing opinions, viewpoints, and experiences
- Giving and gracefully accepting constructive feedback
- Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- The use of sexualized language or imagery, and sexual attention or advances of any kind
- Trolling, insulting or derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or email address, without their explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

9.7.3 Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

9.7.4 Scope

This Code of Conduct applies within all community spaces, and also applies when an individual is officially representing the community in public spaces. Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

9.7.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported to the community leaders responsible for enforcement at mail@tbd.com. All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

9.7.6 Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

1. Correction

Community Impact: Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

Consequence: A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

2. Warning

Community Impact: A violation through a single incident or series of actions.

Consequence: A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

3. Temporary Ban

Community Impact: A serious violation of community standards, including sustained inappropriate behavior.

Consequence: A temporary ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

4. Permanent Ban

Community Impact: Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

Consequence: A permanent ban from any sort of public interaction within the community.

9.7.7 Attribution

This Code of Conduct is adapted from the Contributor Covenant, version 2.0, available at https://www.contributor-covenant.org/version/2/0/code_of_conduct.html.

Community Impact Guidelines were inspired by Mozilla's code of conduct enforcement ladder.

For answers to common questions about this code of conduct, see the FAQ at <https://www.contributor-covenant.org/faq>. Translations are available at <https://www.contributor-covenant.org/translations>.

9.8 MIT License

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