JuiceNet HTTP API

Revision 1.3

This document describes protocol for JuiceNet client applications. Current version of the API is implemented using POST requests over HTTP/HTTPS connection. Request and response message body is encoded in JSON format.

Preliminary instructions:
- Add all your devices to the EMW dashboard.
- When running you code make get_account_units call to get all tokens for your devices (see this call below). Use those token for further calls.
- Account token: click on the user profile and you will find it on the right left " eMotorWerks API Token"

Device Token

To send requests to the specific JuiceNet device, client device should first obtain **device specific** token from the server. Each token is unique and bound to a pair {client device, JuiceNet device}. To obtain token client sends request to:

Adding a unit to the account:

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_pin

 The method add_unit of the charging sessions.

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request (like a phone)
device_name	string	Device name
account_token	string	Unique account identifier - token account
ID	string	JuiceNet device ID from request

Request example:

```
{
    "cmd":"add_unit",
    "device_id":"type anything here",
    "device_name":"any name",
    "account_token":"4dd4e456-2304-4h05-67a6-3ghabc900660",
    "ID":"08140815081415355225516012129"
}
```

Response example:

```
{
    "success": true,
    "unit_id":"08140815081415355225516012129",
    "name":" JB device name",
    "token":"7bb8a909a4e14bf4b5c927e0669298b3"
}
```

Response contains following fields:

Key	Type	Description
success	boolean	Status of add_unit response
unit_id	string	JuiceNet device ID from request
name	string	Name of unit in JuiceNet
token	string	Token for device API requests

Getting tokens of all units (JuiceBoxes) associated with the account:

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_pin

The method get_account_units will provide the list of all JucieBox IDs and tokens associated with them.

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request (like a phone)
account_token	string	Unique account identifier - token account

Request example:

```
{
    "cmd":"get_account_units",
    "device_id":"type anything here",
    "account_token":"4dd4e456-2304-4h05-67a6-3ghabc900660"
  }
```

Response example:

```
{
    "success":true,
    "units":
     [
      {
         "name":" JB device name",
                "token":"7bb8a909a4e14bf4b5c927e0669298b3",
                "unit_id":"081408150814153552251601 2129"
      },
      {
         "name":" JB device name1",
                "token":"1ee8a9101r5h14bf4b5c927e4567891b3",
                "unit_id":"056890150814153552251601 2456"
      },
       ]
}
```

Response contains following fields:

Key	Type	Description
success	boolean	Status of add_unit response
units	array	Array of units in the chosen account

units array has following fields:

Key	Type	Description
name	string	Name of the JuiceBox
token	string	Token for device API requests
unit_id	string	JuiceNet device ID from request

Device API

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

…and includes at least following key-value pairs along with other, command specific key-values:

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request
token	string	Token for device API requests

If server response status code is 200* OK, response message body includes following key-values:

Key	Type	Description
success	boolean	Command executed successfuly (true) or not (false)
error_message	string	Error message string, if success = false [optional]
error_code	integer	Error code, if success = false [optional]
cmd	string	JuiceNet device command

* Other HTTP response status codes are possible.

Examples of specific request / response are included below.

Getting JuiceBox state

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

Request example:

```
{
    "cmd":"get_state",
    "account_token":"4dd4e456-2304-4a05-88a6-3ghabc900660",
    "device_id":"BFA53EA9-ADE0-45CB-B8D3-C0BA025D451F",
    "token":"90f1efd7c1de4fdcb65b155cd7a58569"
}
```

Response example:

```
{

  "ID":"08140815081415355225516012129",
  "info_timestamp":1487107276,
  "show_override":false,
  "state":"disconnect",
  "charging":{
      "amps_limit":40,
      "amps_current":0,
      "voltage":215,
      "wh_energy":4134,
      "savings":140,
      "watt_power":0,
      "seconds_charging":2464,
      "wh_energy_at_plugin":0,
      "wh_energy_to_add":0,
      "flags":0,
      "co2":{
          "nonstop":0,
          "actual":0
      }
  },
  "lifetime":{
      "wh_energy":430000,
      "savings":14620,
      "co2":{
          "nonstop":0,
          "actual":0
      }
  },
```

```
    "charging_time_left":11936,
    "plug_unplug_time":1487207282,
    "target_time":1487504483,
    "override_time":0,
    "default_target_time":1487504483,
    "time_last_ping":1487292952,
    "utc_time":1487533283,
    "unit_time":1487504483,
    "update_interval":3,
    "temperature":30,
    "frequency":5999,
    "triggers_all":1,
    "triggers_blocking":0,
    "car_id":4025,
    "success":true
}
```

Key	Type	Description
ID	string	JuiceNet device ID from request
Info_timestamp	integer	Timestamp (UTC)
show_override	boolean	Overrides smart charging (user defined)
state	string	See JSON State Value below (disconnect, charging, standby)
charging	object	Contains parameters of current state of charging
lifetime	object	Statistics on aggregated value the during lifetime
charging_time_left	integer	Seconds left to charge vehicle
plug_unplug_time	integer	Last time of either plug-in or plug-out timestamp (UTC)
target_time	integer	"Start charging" start time when overriding smart charging is chosen
override_time	integer	Time of override "charge now" (UTC)
default_target_time	integer	Start of TOU, timestamp (UTC)
time_last_ping	integer	Timestamp of the last ping (UTC)
utc_time	integer	Current UTC time
unit_time	integer	Current time on the unit timer (UTC)
update_interval	integer	Update interval
temperature	integer	Degree Celsius (C) in API spec
frequency	integer	Grid frequency (x 10 Hz)
triggers_all	integer	1-when charging is ON, 9 - charging is Off

triggers_blocking	integer	0 - When charging is ON, 1- waiting for time of use, 8- charging is Off
car_id	integer	Car_Id in the JuiceNet if plugged, last Car_Id seen if unplugged
success	boolean	Status of get_state response

Charging object contains parameters of current charging session

Key	Type	Description
amps_limit	Integer	Max current allowed, (A)
amps_current	Integer	Current amperage value, (A)
voltage	Integer	Voltage, (V)
wh_energy	Integer	Current amount of energy poured to the vehicle (Wh)
savings	Integer	EV driving saving (cents)
watt_power	Integer	Current power value which a car charge at (kW)
seconds_charging	Integer	Charging time since plug-in time.
wh_energy_at_plugin	Integer	Energy value at the plugging time (Wh)
wh_energy_to_add	integer	Amount of energy to be added (user defined, Wh)
flags	Integer	Flag parameter
co2	object	Contains information regarding co2 savings for a session

Co2 object (in charging) contains the co2 values for the charging session.

Key	Type	Description
nonstop	Integer	Dummy case: marginal CO2 level per kWh produced without smart charging
actual	integer	Marginal CO2 level per kWh produced with smart charging

lifetime object contains statistics on parameters during lifetime.

Key	Type	Description
wh_energy	Integer	Total energy poured to vehicles during lifetime (Wh).
savings	Integer	EV driving saving (cents) during lifetime
co2	object	Statistics CO2 saving values during lifetime

Co2 object (in lifetime) contains the CO2 savings values during lifetime of the JuiceBox.

Key	Type	Description
nonstop	Integer	Dummy case: marginal CO2 level per kWh produced without smart charging

actual	integer	Marginal CO2 level per kWh produced with smart charging

Returned **state** field values interpretation:

JSON State Value	Description
standby	J1772 state A - not connected
plugged	J1772 state B - connected but not charging
charging	J1772 state C - connected and charging
error	J1772 state INVALID / D / F / E
disconnect	JuiceNet device hasn't checked-in with the server for some time

Setting JuiceBox Maximum Charging Rate.

Set_limit call allows to switch the charring off (amperage = 0 Amps) and on (from 0 Amp to 40 Amp). Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

 The method set the value of max allowed charging current. The result can be verified by get_state method in **amps_limit** field.

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request (like a phone)
token	string	Unique account identifier - token account
amperage	Integer	Max limit current (A); zero when JB is off, more than zero when JB is ON

Request example:
```
{
    "cmd":"set_limit",
    "device_id":"BFA53EA9-ADE0-45CB-B8D3-C0BA025D451F",
    "token":"90f1efd7c1de4fdcb65b155cd7a58569"
    "amperage": 15
}
```

Response example:
```
{
    "success": true
```

```
}
```

Response contains following fields:

Key	Type	Description
success	boolean	Status of set_limit response

Getting JuiceBox Time-of-Use Schedule

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

Request example:

```
{
    "cmd":"get_schedule",
    "account_token":"4dd4e456-2304-4a05-88a6-3ghabc900660",
    "device_id":"BFA53EA9-ADE0-45CB-B8D3-C0BA025D451F",
    "token":"90f1efd7c1de4fdcb65b155cd7a58569"
}
```

Response example:

```
{
    "type":"custom",
    "weekday":{
        "start":960,
        "end":1260,
        "car_ready_by":1080
    },
    "weekend":{
```

```
      "start":420,
      "end":1260,
      "car_ready_by":900
   },
   "info_timestamp":1487107276,
   "success":true,
   "ID":"0814081508141535522516012129"
}
```

Response contains following fields:

Key	Type	Description
type	string	Description below for type field
weekday	object	TOU parameters for weekdays
weekend	object	TOU parameters for weekends
Info_timestamp	integer	The time when the response received (UTC)
success	boolean	Command executed successfuly (true) or not (false)
ID	string	JuiceNet device ID

weekday/weekend object contains the time-of-use parameters (TOU) values, defined by a customer.

Key	Type	Description
start	integer	Time of use start time, min (user defined)
end	integer	Time of use end time, min (user defined)
car_ready_by	integer	Time by which a vehicle must be fully charged (user defined)

Schedule **type** field can have one of two values:
  ▪ disabled: charging is unrestricted by time of the day
  ▪ custom: charging is enabled only during specified intervals

Time intervals are specified for weekdays and weekends separately. Time is specified in minutes of the day, ranging from 0 to 1440 (24 x 60). For example: 7 AM = 420 (60 * 7). The **end** time which is less than **start** time specifies interval from **start** to midnight and from midnight to the **end** time.

In above response message, charging during weekdays is allowed from 16 PM till 21:00 AM, and on weekends from 7AM till 21PM.

Updating JuiceBox Time-of-Use Schedule

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

Request example:

```
{
    "cmd":"set_schedule",
    "device_id":"BFA53EA9-ADE0-45CB-B8D3-C0BA025D451F",
    "token":"90f1efd7c1de4fdcb65b155cd7a58569"
    "type": "custom",
    "account_token":"4dd4e456-2304-4a05-88a6-3ghabc900660"

    "weekday": {
        "start": 1380,
        "end": 420,
        "car_ready_by": 0
    },
    "weekend": {
        "start": 1380,
        "end": 480,
        "car_ready_by": 0
    }
}
```

Request fields have following interpretation:

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request
token	string	Token for device API requests
type	string	Description is below
account_token	string	Token account
weekday	object	Contains start and end of TOU for weekday
weekend	object	Contains start and end of TOU for weekend

weekday/weekend object contains the time-of-use parameters (TOU) values, defined by a customer.

Key	Type	Description
start	integer	Time of use start time, min (user defined)
end	integer	Time of use end time, min (user defined)
car_ready_by	integer	Time by which a vehicle must be fully charged (user defined)

Schedule **type** field can have one of two values:

- disabled: charging is unrestricted by time of the day

- custom: charging is enabled only during specified intervals

Response example:

```
{
    "success": true
}
```

Response contains following fields:

Key	Type	Description
success	boolean	Status of set_schedule response

See previous section for description of type and time values.

Getting the **history**: sending the historical data of charging sessions with energy amount value.

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

 The method get_history of the charging sessions.

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request (like a phone)
token	string	token
account_token	string	Unique account identifier - token account

Request example:

```
{
    "cmd":"get_history",
    "device_id":"type anything here",
    "token":"90f1efd7c1de4fdcb65b155cd7a58569"
    "account_token":"4dd4e456-2304-4a05-88a6-3ghabc900660"
}
```

Response example:

```
{
    "success":true,
    "sessions":[
        {
        "id": 1380,
        "time_start": 1478544800,
        "time_end": 1478544913,
        "duration":992,
        " wh_energy":1799,
         },
         {
        "time_start": 1478544800,
        "time_end": 1478544913,
        "duration":777,
        "wh_energy":13340,
        }
```

```
    ]
}
```

Response contains following fields:

Key	Type	Description
success	boolean	Status of get_history response
sessions	array	Array containing the history of sessions

Sessions array has following fields:

Key	Type	Description
id	integer	session id
time_start	integer	start of the session
time_end	integer	end of the session
duration	integer	duration of the session
wh_energy	integer	token account

Getting the power timeseries for a JuiceBox: server sends back the timeseries with power vs time value.

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

The method get_plot of the charging sessions.

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request (like a phone)
token	string	token
account_token	string	Unique account identifier - token account
attribute	string	Parameter for the value needed for
intervals	number	Intervals of the time series
session_id	number	The number session (can be received from get_history call)

Request example:

```
{
    "cmd":"get_plot",
    "device_id":"type anything here",
    "token":"90f1efd7c1de4fdcb65b155cd7a58569",
    "account_token":"4dd4e456-2304-4a05-88a6-3ghabc900660",
    "attribute":"power",
    "intervals":100,
    "session_id":5678321
 }
```

Response example:

```
{
    "success":true,
    "points":[
        {
        "t": 1470656838,
        "v": 0
        },
        {
        "t": 1470656938,
        "v": 0
    }
   ]
}
```

Response contains following fields:

Key	Type	Description
success	boolean	Status of get_plot response
points	array	Array containing the historical power data

Sessions array has following fields:

Key	Type	Description
t	integer	timestamp
v	integer	power, watts

Providing the **pin number** to an account that needs to add JB.

get_share_pin:

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

 The method get_share_pin of the charging sessions.

Key	Type	Description
cmd	String	JuiceNet device command
account_token	String	Unique account identifier - token account
device_id	String	ID of the client device sending request (like a phone)
token	String	Token for device API requests

Request example:

```
{
    "cmd": "get_share_pin",
    "account_token": "c31a1e00-1017-4048-bobd-423da512f4c2",
    "device_id": "DEE328A7-B7F4-4235-9A6E-CF77C0C1FA74",
    "token":"2739f8604e4c4e30a749fe07801d8575"
}
```

Response example:

```
{
    "success":true,
    "pin": "8447"
}
```

Response contains following fields:

Key	Type	Description
success	Boolean	Status
pin	String	Pin number

If JB owner want to share his device to another account the share_device call used (having pin from get_share_pin call).

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_pin

 The method share_device of the charging sessions.

Key	Type	Description
cmd	String	JuiceNet device command
device_id	String	ID of the client device sending request (like a phone)
device_name	String	Name of unit in JuiceNet
account_token	String	Unique account identifier - token account
ID	String	JuiceNet device ID from request
pin	String	Pin number received from get_share_pin

Request example:

```
{
    "cmd": "share_device",
    "device_id": "DEE328A7-B7F4-4235-9A6E-CF77C0C1FA74",
    "device_name": "string",
    "account_token": "c31a1e00-1017-4048-bobd-423da512f4c2",
    "ID": "08140815081415355225160121 29",
    "pin": "1235"
}
```

Response example:

```
{
    "success": true,
    "unit_id": " 0814081517181535522516012726",
    "name": "EMW Happy Hour JB 2.3 (#6)",
    "token": "2739f8604e4c4e30a749fe07801d8575"
}
```

Key	Type	Description

success	Boolean	Status
unit_id	String	JuiceNet device ID from request
name	String	Name of unit in JuiceNet
token	String	Token for device API requests

get_info call provides detailed information about JuiceBox status: A policy that JB operates on, location, IP address, detail information about cars associated with JB, time zone of JB location, technical parameters of JB.

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

The method get_info of the charging sessions.

Key	Type	Description
cmd	String	JuiceNet device command
account_token	String	Unique account identifier - token account
device_id	String	ID of the client device sending request (like a phone)
token	String	Token for device API requests

Request example:

```
{
    "cmd": "get_info",
    "account_token": "c31a1e00-1017-4048-b0bd-423da512f4c2",
    "token": "2739f8604e4c4e30a749fe07801d8575",
    "device_id": "DEE328A7-B7F4-4235-9A6E-CF77C0C1FA74"
}
```

Response example:

```
{
    "name": "EMW Happy Hour JB 2.3 (#6)",
    "address": "850 Bransten Rd",
    "city": "San Calrol",
    "zip": "94070",
    "country_code": "US",
    "load_group_id": "string",
    "unit_type_id": 1,
    "IP": "50.168.20.98",
    "gascost": 350,
    "mpg": 25,
    "ecost": 12,
    "whpermile": 300,
    "timeZoneId": "Pacific Standard Time",
    "amps_wire_rating": 60,
    "amps_unit_rating": 32,
    "info_timestamp": 1498852150,
    "garage_id": "306a413e-40d2-4440-a867-77c94a3bd987",
    "cars": [
     {
        "car_id": 6613,
        "description": "2016 Voklswagen e-Golf",
        "battery_size_wh": 144841,
        "battery_range_m": 24200,
        "charging_rate_w": 7200,
        "model_id": "36834",
        "model_info": {
                "model_id": "36834",
                "description": "2016 Volkswagen e-Golf",
                "make": "Volkswagen",
                "model": "e-Golf",
                "year": 2016,
                "range_m": 133575,
                "range_city_m": 143070,
                "range_highway_m": 121022,
```

```
                "battery_size_wh": 24200,
                "charging_rate_w": 7200,
                "images": {
                    "charging": "string",
                    "default":
"htps://dashboard.emotorworks.com/Content/carmodels/volkswagen-e-golf.jpg",
                    "plugged": "string"
                }
            }
        }
    ],
    "policy": {
            "name": "Default",
            "user_control_allowed": false,
            "charge_control_type": "standby"
        },
    "restrictions":
        "set_tou": {
            "message": "The function isn't available for your box. Upgrade
to Pro?",
            "activation_url": "string"
        },
        "set_notifications": {
            "message": "The function isn't available for your box. Upgrade
to Pro?",
            "activation_url": "string"
        },
        "set_override": {
            "message": "The function isn't available for your box. Upgrade
to Pro?",
            "activation_url": "string"
        },
        "history": {
            "message": "The function isn't available for your box. Upgrade
to Pro?",
            "activation_url": "string"
        },
        "get_share_pin": {
            "message": "The function isn't available for your box. Upgrade
to Pro?",
            "activation_url": "string"
        }
    }
}
```

Response contains following fields:

Key	Type	Description
name	String	Name of the JuiceBox
zip	String	Zip code of the area
country_code	String	Country code based on ISO - alpha 2
load_group_id	String	Optional parameter. Exists if the JNDevice in the load group.
unit_type_id	Integer	Represent the unit type id (Pro, Classic). Not used for now
IP	String	IP address of the JB
gascost	Integer	gascost
mpg	Integer	mpg
ecost	Integer	ecost
whpermile	Integer	watts per gallon
timeZoneId	String	Time zone of JB location
amps_wire_rating	Integer	Max limit of amperage allowed for JB
amps_unit_rating	Integer	Max limit of amperage allowed for hardware
info_timestamp	Integer	Info timestamp
garage_id	String	Garage ID which the JB associated with
cars	Object	Array having list of cars associated with JB
policy	Object	Detailed information regarding policy the JB operates on
restrictions	Object	Optional, not used yet
set_notifications	Object	Optional, not used yet
set_override	Object	Optional, not used yet
history	Object	Optional, not used yet
get_share_pin	Object	Optional, not used yet

cars object has following fields:

Key	Type	Description
car_id	Integer	Id of the vehicle
description	String	Description of the vehicle
battery_size_wh	Integer	Battery pack size, WH
battery_range_m	Integer	Mailge range

charging_rate_w	Integer	Charging rate, w
model_id	String	Id of the vehicle model in JN
model_info	Object	Array with details on vehicle model

model_info object has following fields:

Key	Type	Description
model_id	String	Id of the vehicle model in JN
description	String	Description of the model
make	String	Company that make a vehicle
model	String	Full description of the model
Year	Integer	Year of vehicle release
range_m	Integer	Range according to the documentation
range_city_m	Integer	Range when driving in city
range_highway_m	Integer	Range when driving on the highway
battery_size_wh	Integer	Battery pack size, WH
charging_rate_w	Integer	Charging rate
Images	Object	Image of the vehicle

images object has following fields:

Key	Type	Description
charging	String	images of charging vehicle
default	String	default images of vehicle
plugged	String	image of plugged vehicle

policy object has following fields:

Key	Type	Description
name	String	Name of the policy the JB belongs to
user_control_allowed	Boolean	Status of control
charge_control_type	String	The type of control

Set Override

set_override call overrides any polices that JB operates on and when customer uses this option the JB will charge his vehicle in non-stop mode until fully charged.

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

The method set_override of the charging sessions.

Key	Type	Description
cmd	String	JuiceNet device command
account_token	String	Unique account identifier - token account
token	String	Token for device API requests
devicde_id	String	ID of the client device sending request
energy_at_plugin	Integer	Energy the car came to station with
override_time	Integer	Time set to in past to charge the JB now, set to zero to switch off override
energy_to_add	Integer	Energy to add to the battary - user defined in JN app

Request example:

```
{
    "cmd": "set_override",
    "account_token": "c31a1e00-1017-4048-b0bd-423da512f4c2",
    "token": "2739f8604e4c4e30a749fe07801d8575",
    "device_id": "DEE328A7-B7F4-4235-9A6E-CF77C0C1FA74",
    "energy_at_plugin": 0,
    "override_time": 1501064278,
    "energy_to_add": 60000
}
```

Response example:

```
{
    "success":false
}
```

Response contains following fields:

Key	Type	Description

success	boolean	Status

Prohibit default charging:

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

The method set_charging_time **designed to prohibit default charging when B2B needs to get control over the JuiceNet devices**

Key	Type	Description
cmd	string	JuiceNet device command
device_id	string	ID of the client device sending request (like a phone)
account_token	string	Unique account identifier - token account
token	string	Token for device API requests
charging_time	number	time by which the default charging is prohibited

Request example:

```
{
   "cmd":"set_charging_time",
   "device_id": "DEE328A7-B7F4-4235-9A6E-CF77C0C1FA74",
   "token": "2739f8604e4c4e30a749fe07801d8575",
   "account_token": "c31a1e00-1017-4048-b0bd-423da512f4c2",
   "charging_time": 1593348596
}
```

Response example:

```
{
   "success": true
}
```

Response contains following fields:

Key	Type	Description
success	boolean	status of set_charging_time

set_info:

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

The method set_info of the charging sessions.

Key	Type	Description
cmd	String	JuiceNet device command
account_token	String	Unique account identifier - token account
device_id	String	ID of the client device sending request (like a phone)
Token	String	Token for device API requests
zip	String	Zip code
country_code	String	Country code
load_group_id	String	load_group_id
unit_type_id	Integer	unit_type_id
IP	String	IP

gascost	Integer	gascost
mpg	Integer	mpg
ecost	Integer	ecost
whpermile	Integer	whpermile
timezoneid	String	timezoneid
amps_wire_rating	Integer	max allowed current
amps_unit_rating	Integer	amp unit rating
info_timestamp	Integer	Info_ timestamp
garage_id	String	Garage ID which the JB associated with
cars	Object	Array having list of cars associated with JB
policy	Object	Detailed information regrading policy the JB operates on

policy object has following fields:

Key	Type	Description
name	String	name
user_control_allowed	Boolean	user_control_allowed
charge_control_type	String	charge_control_type

cars object has following fields:

Key	Type	Description
car_id	Integer	Id of the vehicle
description	String	Description of the vehicle
battery_size_wh	Integer	Battery pack size, WH
battery_range_m	Integer	Mailge range

charging_rate_w	Integer	Charging rate ,w
model_id	String	Id of the vehicle model in JN
model_info	Object	Array with details on vehicle model

model_info object has following fields:

Key	Type	Description
model_id	String	Id of the vehicle model in JN
description	String	Description of the model
make	String	Company that make a vehicle
model	String	Full description of the model
Year	Integer	Year of vehicle release
range_m	Integer	Range according to the documentation
range_city_m	Integer	Range when driving in city
range_highway_m	Integer	Range when driving on the highway
battery_size_wh	Integer	Battery pack size, WH
charging_rate_w	Integer	Charging rate
Images	Object	Image of the vehicle

images object has following fields:

Key	Type	Description
charging	String	charging
default	String	default
plugged	String	plugged

Request example:

```json
{
    "cmd": "set_info",
    "account_token": "4dd4e4c7-2304-4a05-88a6-3ffabc900660",
    "token": "b5e58aba6b414bfe9c435f9fb09d63ae",
    "device_id": "linker",
    "name": "EMW Pro 75 JB 3.1 (#7)",
    "zip": "94070",
    "country_code": "US",
    "load_group_id": "string",
    "unit_type_id": 1,
    "IP": "50.168.20.98",
    "gascost": 350,
    "mpg": 25,
    "ecost": 12,
    "whpermile": 300,
    "timeZoneId": "Pacific Standard Time",
    "amps_wire_rating": 75,
    "amps_unit_rating": 75,
    "info_timestamp": 1499586158,
    "garage_id": "0bae0594-894f-486f-b962-2bc712d5d277",
    "cars": [
     {
        "car_id": 5528,
        "description": "2017 Chevrolet Bolt",
        "battery_size_wh": 383024,
        "battery_range_m": 60000,
        "charging_rate_w": 7200,
        "model_id": "37066",
        "model_info": {
            "model_id": "37066",
            "description": "2017 Chevrolet Bolt",
            "make": "Chevrolet",
            "model": "Bolt",
            "year": 2017,
            "range_m": 383023,
            "range_city_m": 399116,
            "range_highway_m": 337961,
            "battery_size_wh": 60000,
            "charging_rate_w": 7200,
            "images": {
                "charging": "string",
                "default":
"https://dashboard.emotorwerks.com/Content/carmodels/chevy_bolt.jpg",
                "plugged": "string"
            }
        }
      }
 ],
    "policy": {
            "name": "string",
            "user_control_allowed": false,
            "charge_control_type": "string"
        }
```

```
}
```

Response example:

```
{
    "success": true
}
```

Response contains following fields:

Key	Type	Description
success	boolean	Status of set_info response

Get Notifications

get_notifications:

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_secure

 The method get_notifications of the charging sessions.

Key	Type	Description
cmd	String	JuiceNet device command
account_token	String	Unique account identifier - token account
device_id	String	ID of the client device sending request (like a phone)
token	String	Token for device API requests

Request example:

```
{
    "cmd": "get_notifications",
    "account_token": "c31a1e00-1017-4048-b0bd-423da512f4c2",
    "device_id": "DEE328A7-B7F4-4235-9A6E-CF77C0C1FA74",
    "token": "2739f8604e4c4e30a749fe07801d8575"
}
```

Response example:

```
{
    "success":true,
    "notifications": {
        "charging_delayed_due_to_ToU": {
                "email": false,
                "push": false
                },
        "start_charging ": {
                "email": false,
                "push": false
                },
        "stop_charging ": {
                "email": false,
                "push": false
                },
        "is_offline": {
                "email": false,
                "push": false
                },
        "is_back_online": {
                "email": false,
                "push": false
                },
        "is_not_plugged_in_by": {
                "email": false,
                "push": false,
                "time": 0
                }
        }
}
```

Response contains following fields:

Key	Type	Description
success	Boolean	Status
notifications	Object	Object having notifications

notifications object contains following fields:

Key	Type	Description
charging_delayed_due_to_toU	Object	event on which he notification will be sent
start_Charging	Object	event on which he notification will be sent

stop_charging	Object	event on which he notification will be sent
is_offline	Object	event on which he notification will be sent
is_back_online	Object	event on which he notification will be sent
is_not_plugged_in_by	Object	event on which he notification will be sent

charging_delayed_due_to_ToU object contains following fields:

Key	Type	Description
email	Boolean	method delivering the notification
Push	Boolean	method delivering the notification

start_charging object contains following fields:

Key	Type	Description
email	Boolean	method delivering the notification
push	Boolean	method delivering the notification

stop_charging object contains following fields:

Key	Type	Description
email	Boolean	method delivering the notification
push	Boolean	method delivering the notification

is_offline object contains following fields:

Key	Type	Description
email	Boolean	method delivering the notification
push	Boolean	method delivering the notification

is_back_online object contains following fields:

Key	Type	Description
emai l	Boolea n	method delivering the notification
push	Boolea n	method delivering the notification

is_not_plugged_in_by object contains following fields:

Key	Type	Description
emai l	Boolea n	method delivering the notification
push	Boolea n	method delivering the notification
time	Integer	method delivering the notification

Set Notifications

set_notifications:

Client sends JuiceNet device API requests to:

https://jbv1-api.emotorwerks.com/box_api_sec ure

 The method set_otifications of the charging sessions.

Key	Type	Description
cmd	String	JuiceNet device command
account_toke n	String	Unique account identifier - token account
Token	String	Token for device API requests
device_id	String	ID of the client device sending request (like a phone)
notifications	Objec t	

notifications object contains following fields:

Key	Type	Description

charging_delayed_due_to_toU	Object	event on which he notification will be sent
start_Charging	Object	event on which he notification will be sent
stop_charging	Object	event on which he notification will be sent
is_offline	Object	event on which he notification will be sent
is_back_online	Object	event on which he notification will be sent
is_not_plugged_in_by	Object	event on which he notification will be sent
unplug	Object	event on which he notification will be sent
plugin	Object	event on which he notification will be sent

charging_delayed_due_to_ToU object contains following fields:

Key	Type	Description
email	Boolean	method delivering the notification
Push	Boolean	method delivering the notification
webhook	object	webhook

webhook object contains following fields:

Key	Type	Description
authorization_headers	string	headers
url	string	url
method	object	PUT/POST

start_charging object contains following fields:

Key	Type	Description

Key	Type	Description
emai l	Boolea n	method delivering the notification
push	Boolea n	method delivering the notification

stop_charging object contains following fields:

Key	Type	Description
emai l	Boolea n	method delivering the notification
push	Boolea n	method delivering the notification

is_offline object contains following fields:

Key	Type	Description
emai l	Boolea n	method delivering the notification
push	Boolea n	method delivering the notification

is_back_online object contains following fields:

Key	Type	Description
emai l	Boolea n	method delivering the notification
push	Boolea n	method delivering the notification

is_not_plugged_in_by object contains following fields:

Key	Type	Description
emai l	Boolea n	method delivering the notification
push	Boolea n	method delivering the notification
time	Integer	time

Request example:

```
{
    "cmd": "set_notifications"
    "account_token": "c31a1e00-1017-4048-b0bd-423da512f4c2",
    "token": "2739f8604e4c4e30a749fe07801d8575",
```

```json
    "device_id": "DEE328A7-B7F4-4235-9A6E-CF77C0C1FA74",
    "notifications": {
        "charging_delayed_due_to_ToU": {
                "email": false,
                "push": false
                },
        "start_charging ": {
                "email": false,
                "push": false
                },
        "stop_charging ": {
                "email": false,
                "push": false
                },
        "is_offline": {
                "email": false,
                "push": false
                },
        "is_back_online": {
                "email": false,
                "push": false
                },
        "is_not_plugged_in_by": {
                "email": false,
                "push": false,
                "time": 0
                }
        }
}
```

Response example:

```json
{
    "success":false,
}
```

Response contains following fields:

Key	Type	Description
success	Boolean	Status