



# Solax EV Charger-API

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# 1. Introduction

The SOLAX API provides remote capability calls for Third party. Third party sends HTTPS/HTTP GET or POST requests to the API server to query, modify, and remotely control Solax platform data.

The third party needs to add corresponding parameters in the request message according to the API instructions to call the API. SOLAX platform will return the processing results based on the processing of the request.

## 2. Operating procedures

1. Log in <https://www.solaxcloud.com/#/login> to register an account
2. Obtain a unique token through the menu [service-API]
3. Call the API according to the *Solax EV Charger API* document

## 3. HTTP request paradigm

### 3.1. Interface format and protocol

The API operate the platform data through HTTP protocol, and return the results in JSON format.

Interface address:

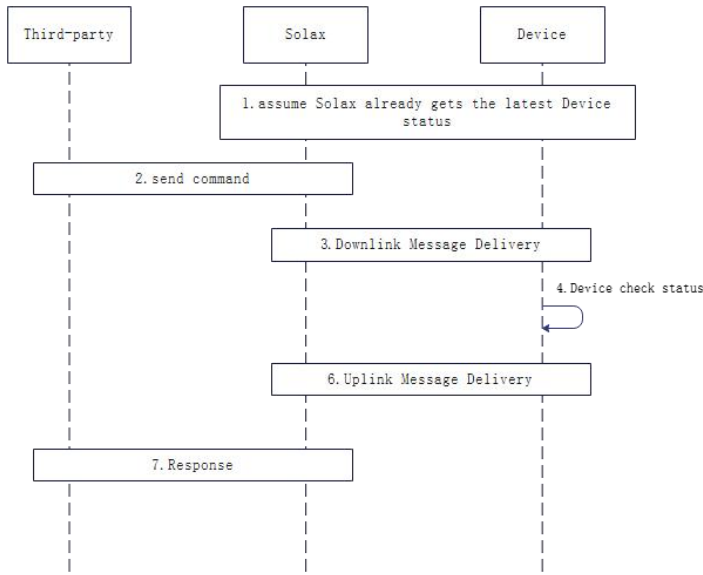
`https://www.solaxcloud.com/proxyApp/proxy/api/<API_VERSION>/<RESOURCE_NAME>/<RESOURCE_ACTION>`

Notice:

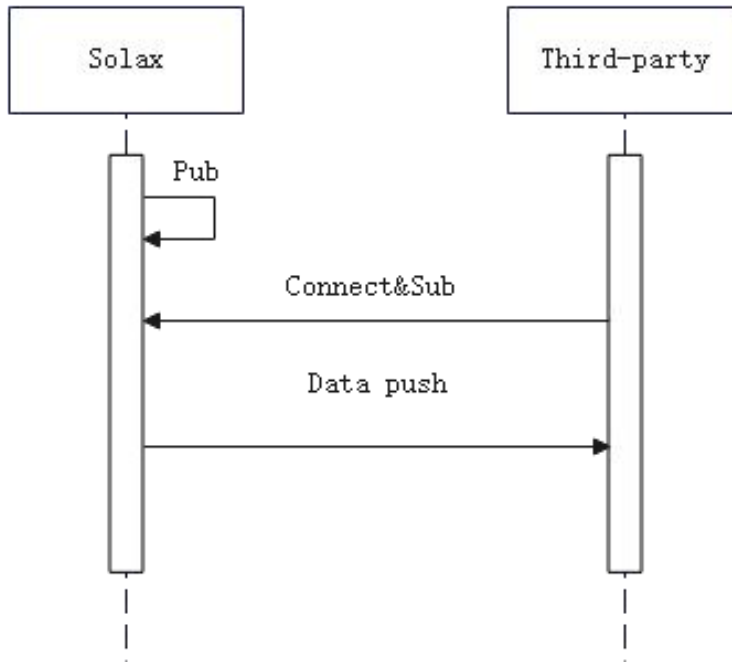
1. API\_VERSION: version number, the current version is v2.0.
2. RESOURCE\_NAME: the resource to be operated on, such as userMng, agentMng, siteMng and so on.
3. RESOURCE\_ACTION: the actions on the resource, such as list, add and so on.

### 3.2. Sequence Diagram

**Get/post request:**



**DataPush:**

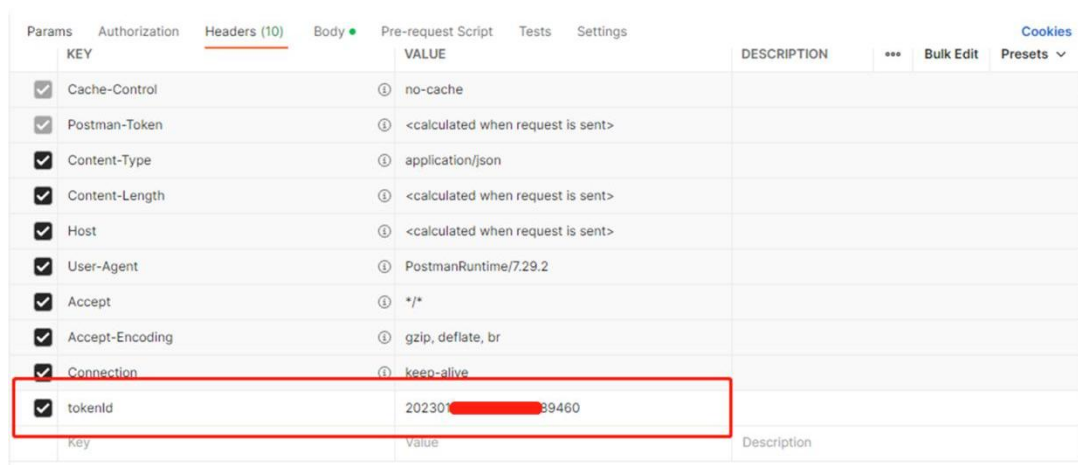


## 4. Common parameter

### 4.1. Token

Parameter	Notes
tokenId	Get from [service-API], Please keep the token safe and do not leak it.

**Notice:** When calling the interface, tokenId needs to be placed in Headers.



When commissioning the interface, the interface testing tool [Postman] can be used to commission and place tokens in headers.

## 4.2. Common return object

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	Error message
result	Object	Concrete data returned

## 5. Calling case

If it is successfully called, the interface provided normal feedback results. When a failure occurs, the interface prompts an error message and error code;

### 5.1. Successful case

**Request address:**

<https://www.solaxcloud.com/api/v2/XXX/list>

**Request message:**

```
{
  "current": 1,
```

```
"size": 20
}
```

**Reply message:**

```
{
  "success": true,
  "exception": null,
  "result": {
    "list": [
      {
        "id": "2023*****0001",
        "userName": "123**6@solaxpower.com",
        "email": "123**6@solaxpower.com",
        "nation": "UNITED STATES",
        "phone": null,
        "siteNum": "1",
        "deviceNum": "1"
      },
      {
        "id": "2023*****0002",
        "userName": "123**7@solaxpower.com",
        "email": "123**7@solaxpower.com",
        "nation": "UNITED STATES",
        "phone": "",
        "siteNum": "3",
        "deviceNum": "3"
      }
    ],
    "total": 22,
    "pageTotal": 11
  },
  "code": 0
}
```

## 5.2. Unsuccessful case

**Request address:**

<https://www.solaxcloud.com/api/v2/XXX/list>

**Request message:**

```
{
  "current": 1,
  "size": 20
}
```

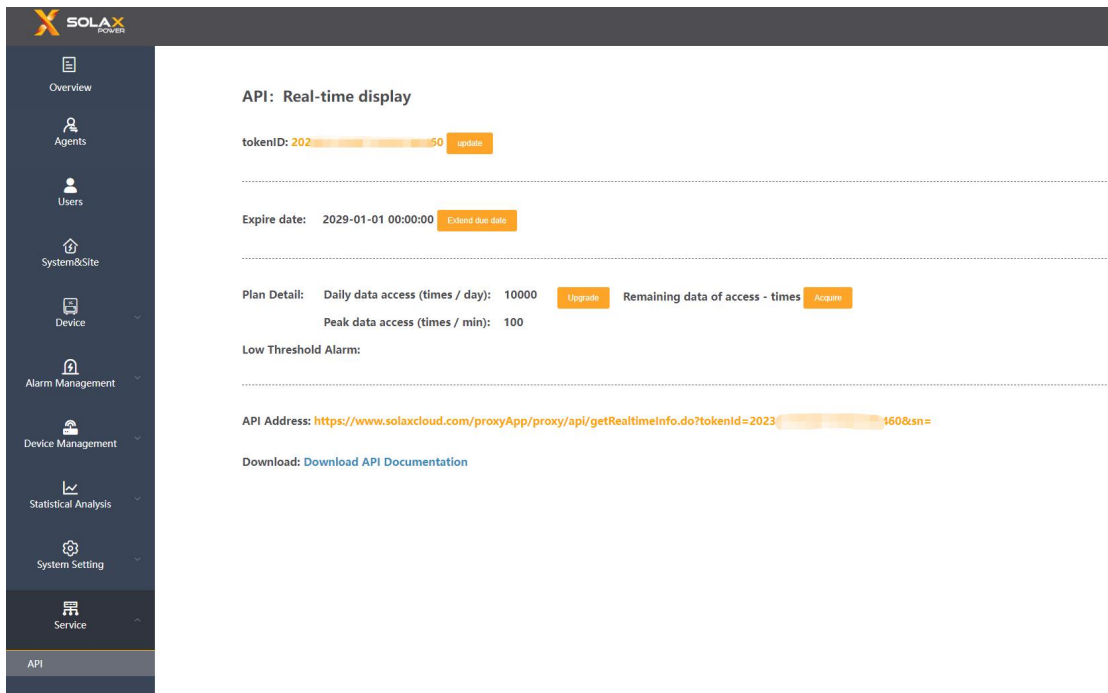
**Reply message:**

```
{
  "success": false,
  "exception": "JSON parse error:Unexpected character ...",
  "result": null,
  "code": 2001
}
```

## 6. API Permission

When a user requests an interface, they must use tokenId to submit an API request to SolaxCloud. The tokenId request path is [solaxcloud-service-API].

Login in the solaxcloud, click the [service] and then enter the API interface, after that a tokenId can be got. After the request is successful, the token will be bound to the agent/installer account.



The screenshot shows the SolaxCloud web interface. On the left is a dark sidebar with navigation icons for Overview, Agents, Users, System&Site, Device, Alarm Management, Device Management, Statistical Analysis, System Setting, and Service. The main content area is titled "API: Real-time display" and contains the following information:

- tokenId: 202...50 (with an update button)
- Expire date: 2029-01-01 00:00:00 (with an extend date button)
- Plan Detail: Daily data access (times / day): 10000 (with an upgrade button) and Remaining data of access - times (with an acquire button)
- Peak data access (times / min): 100
- Low Threshold Alarm:
- API Address: <https://www.solaxcloud.com/proxyApp/proxy/api/getRealtimeInfo.do?tokenId=2023...160&sn=>
- Download: [Download API Documentation](#)

## 7. Business interaction interface

### 7.1. User Management

#### 7.1.1. Paging query

##### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/userMng/list		Paging query for platform user
Content Type	application/json		
HTTP Method	POST		
	current	Yes	The current page count
	size	Yes	The number items per page
	userName	No	Username, inquire the information of specific user

#### Example

Request the information of the user list, starting from page 1, and return 2 pieces of data per page.

Parameter	Value
current	1
size	2

##### Request address:

<https://www.solaxcloud.com/api/v2/userMng/list>

##### Request message:



```
{
  "current": 1,
  "size": 20
}
```

**Reply message:**

```
{
  "success": true,
  "exception": null,

  "result": {
    "list": [
      {
        "id": "2023*****0001",
        "userName": "123**6@solaxpower.com",
        "email": "123**6@solaxpower.com",
        "nation": "UNITED STATES",
        "phone": null,
        "siteNum": "1",
        "deviceNum": "1"
      },
      {
        "id": "2023*****0002",
        "userName": "123**7@solaxpower.com",
        "email": "123**7@solaxpower.com",
        "nation": "UNITED STATES",
        "phone": null,
        "siteNum": "3",
        "deviceNum": "3"
      }
    ],
    "total": 22,
    "pageTotal": 11
  },
  "code": 0
}
```

**The explanation for reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful

exception	String	Error message
result	Object	Concrete data returned
list	List	User set
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

**Detailed data of user set:**

Name	Type	Description
total	Long	The total number
pageTotal	Long	The total pages
id	Long	ID
userName	String	Username
email	String	User' s mailbox
nation	String	Country
phone	String	Phone number
siteNum	String	The number of power sites
deviceNum	String	The number of devices

**7.1.2.Add new users**
**The format of requested data**

Type	Definition	Must	Description
Partial URL	/api/v2/userMng/add		
Content Type	application/json		
HTTP Method	POST		
	email	Yes	Mailbox/Login ID
	password	Yes	Password

**Example**

Request for account creation

Parameter	Vakue	Note
email	123**6@solaxpower.com	
password	12**56	Md5 encipherment

**Request address:**

<https://www.solaxcloud.com/api/v2/userMng/add>

**Request message:**

```
{
  "email":"123**6@solaxpower.com",
  "password":"12**56"
}
```

**Reply message:**

```
{
  "success": true,
  "exception": null,
  "result": "successfully save",
  "code": 0
}
```

**The explanation for reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	Error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

### 7.1.3.Edit the user's information

**The format of requested data**

Type	Definition	Must	Description
Partial URL	/api/v2/userMng/edit		

Content Type	application/json		
HTTP Method	POST		
	id	Yes	User id (User name must match user id)
	email	No	Mailbox
	country	No	Country, The value can be found in Appendix 10.1. "Country Table"
	province	No	Province/State
	city	No	City
	address	No	Address
	phone	No	Phone number

## Example

Modify the user's information which the id is [2023\*\*\*\*\*0001] to [UNITED STATES] for country and [310\*\*\*\*1234] for phone.

Parameter	Value	Note
id	2023*****0001	Paging displayed
country	UNITED STATES	The modified value
phone	310****1234	The modified value

### Request address:

<https://www.solaxcloud.com/api/v2/userMng/edit>

### Request message:

```
{
  "id": "2023*****0001",
  "country": "UNITED STATES",
  "phone": "310****1234"
}
```

### Reply message:

```
{
  "success": true,
  "exception": null,
  "result": "successfully update",
  "code": 0
}
```

#### The explanation for reply:

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	Error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

## 7.2. Agent management

### 7.2.1. Paging query

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/agentMng/list		
Content Type	application/json		
HTTP Method	POST		
	current	Yes	The current page count
	size	Yes	The number of items per page
	firmName	No	Agent name

#### Example

Request data on page 1 of the agent list, with 2 entries per page.

Parameter	value
current	1
size	2

**Request address:**

<https://www.solaxcloud.com/api/v2/agentMng/list>

**Request message:**

```
{
  "current": 1,
  "size": 20,
  "firmName": "test1"
}
```

**Reply message:**

```
{
  "success": true,
  "exception": null,
  "result": {
    "list": [
      {
        "id": "2023*****0001",
        "firmName": "test1",
        "type": 3,
        "contacts": "",
        "phone": "",
        "email": "123**6@solaxpower.com",
        "createTime": "2023-05-23 07:31:08"
      },
      {
        "id": "2023*****0002",
        "firmName": "test2",
        "type": 3,
        "contacts": "",
        "phone": "",
        "email": "123**7@solaxpower.com",
        "createTime": "2023-02-24 12:48:02"
      }
    ],
    "total": 7,
    "pageTotal": 4
  }
}
```

```

    },
    "code": 0
}
    
```

#### The explanation of reply:

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	Error message
result	Object	Concrete data returned
list	List	Agent list
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

#### Detailed data of agent list

Name	Type	Description
list	List	Agent list
total	Long	Total number
pageTotal	Long	Total pages
id	Long	ID
firmName	String	Merchant name
type	Integer	Merchant type 2: Manufacturer, 3: Agent, 4: Installer
contacts	String	The contacts
phone	String	Phone number
email	String	Mailbox
createTime	Date	Creation time yyyy-MM-dd hh:mm:ss

## 7.2.2.Create agent

### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/agentMng/add		
Content Type	application/json		
HTTP Method	POST		
	firmName	Yes	Organization Name, Nonrepeatable
	firmShort	No	Abbreviation for organization
	email	Yes	mialbox
	loginName	Yes	Login ID
	password	Yes	Password
	country	Yes	Country, The value can be found in Appendix 10.1. "Country Table"
	contacts	No	The contacts
	phone	No	Phone number
	address	No	Address
	type	Yes	Merchant type  3: Agent  4: Installer

### Example

Create an agent account with email as [123\*\*\*6@solaxpower.com]

Parameter	Value
email	123***6@solaxpower.com



firmName	test1
firmShort	test1
loginName	123**6@solaxpower.com
type	4
Password	12**56
country	UNITED STATES

**Request address:**

<https://www.solaxcloud.com/api/v2/agentMng/add>

**Request message:**

```
{
  "email":"123***6@solaxpower.com",
  "firmName":"test1",
  "firmShort":"test1",
  "loginName":"123**6@solaxpower.com",
  "type":4,
  "password":"12**56",
  "country":"UNITED STATES"
}
```

**Reply message:**

```
{
  "success": true,
  "exception": null,
  "result": "save successfully",
  "code": 0
}
```

**The explanation of reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned

code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"
------	---------	--

### 7.2.3.Edit agent

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/agentMng/edit		
Content Type	application/json		
HTTP Method	POST		
	id	Yes	id, Obtain from the list interface
	email	Yes	mailbox
	firmName	Yes	Organization Name
	firmShort	No	Abbreviation for organization
	country	Yes	Country, The value can be found in Appendix 10.1. "Country Table"
	address	No	Address
	contacts	No	The contacts
	phone	No	Phone number
	introduce	No	Introduction
	remark	No	Note

#### Example

Modify the agent's information which id is [2023\*\*\*\*\*0001] and email is [123\*\*6@solaxpower.com] to [test1] for "firmName", [test1] for "firmShort", [UNITED STATES] for "country" and [ZZZ] for "contacts".

Parameter	Value	Note
id	2023*****0001	Paging displayed
email	123**6@solaxpower.com	Paging displayed
firmName	test1	The modified value
firmShort	test1	The modified value
contacts	ZZZ	The modified value
country	UNITED STATES	The modified value

**Request address:**

<https://www.solaxcloud.com/api/v2/agentMng/edit>

**Request message:**

```
{
  "id":"2023*****0001",
  "email":"123**6@solaxpower.com",
  "firmName":"test1",
  "firmShort":"test1",
  "contacts":"ZZZ",
  "country":"UNITED STATES"
}
```

**Reply message:**

```
{
  "success": true,
  "exception": null,
  "result": "update success",
  "code": 0
}
```

**The explanation of reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	int	0: successful, Other codes can be found in Appendix

		10.5 "Error Codes"
--	--	--------------------

## 7.3. Site management

### 7.3.1. Power site inquiry

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/siteMng/list		
Content Type	application/json		
HTTP Method	POST		
	current	Yes	The current page
	size	Yes	The number of items per page
	siteName	No	The name of power site
	userName	No	Username

#### Example

Request data on page 1 of the site list, with 2 entries per page.

Parameter	Value
current	1
size	2

#### Request address:

<https://www.solaxcloud.com/api/v2/siteMng/list>

#### Request message:

```
{
  "current": 1,
  "size": 2
}
```

**Reply message:**

```
{
  "success": true,
  "exception": null,

  "result": {
    "list": [
      {
        "id": "2023*****0001",
        "siteName": "testSite1",
        "userName": "123**6@solaxpower.com",
        "capacity": "100.0"
      },
      {
        "id": "2023*****0002",
        "siteName": "testSite2",
        "userName": "123**7@solaxpower.com",
        "capacity": "220.0"
      }
    ],
    "total": 19,
    "pageTotal": 10
  },
  "code": 0
}
```

**The explanation of reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
list	List	The power site list
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

**The detailed data of power site list**

Name	Type	Description
total	Long	Total number
pageTotal	Long	Total pages
id	Long	The power site number
siteName	String	The name of power site
userName	Integer	User' s mailbox
capacity	String	Capacity

### 7.3.2. Add new power site

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/siteMng/add		
Content Type	application/json		
HTTP Method	POST		
	siteName	Yes	The name of power site
	capacity	Yes	Capacity
	loginName	Yes	Username
	longitude	Yes	Longitude
	latitude	Yes	Latitude
	nation	Yes	Country, The value can be found in Appendix 10.1. "Country Table"
	address	No	Address
	timezone	Yes	The time zone ID, the mapping relationship can be found in Appendix 1 "Time Zone Mapping"

## Example

Request to create the power site which the siteName is [testSite1], capacity is [100], the loginName is [123\*\*6@solaxpower.com], the userId is [2023\*\*\*\*\*0001], the longitude is [114.380571], the latitude is [30.47305] and the country is [UNITED STATES].

Parameter	Value
siteName	testSite1
capacity	100
userId	2023*****0001
loginName	123**6@solaxpower.com
longitude	114.380571
latitude	30.47305
country	UNITED STATES
timezone	76

### Request address:

<https://www.solaxcloud.com/api/v2/siteMng/add>

### Request message:

```
{
  "siteName":"testSite1",
  "capacity":"100",
  "loginName":"123**6@solaxpower.com",
  "longitude":"114.380571",
  "latitude":"30.47305",
  "nation":"UNITED STATES",
  "timezone":76
}
```

### Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

```
}

```

#### The explanation of reply:

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

### 7.3.3. Edit the power site

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/siteMng/edit		
Content Type	application/json		
HTTP Method	POST		
	siteName	No	The name of power site
	capacity	No	Capacity
	longitude	No	Longitude
	latitude	No	Latitude
	nation	No	Country, The value can be found in Appendix 10.1. "Country Table"
	timezone	No	The time zone ID, the mapping relationship can be found in Appendix 1 "Time Zone Mapping"
	id	Yes	The power site number



## Example

Modify the information for the power site which the siteName is [testSite1] to [80] for capacity.

Parameter	Value	Note
ID	2023*****0001	Paging displayed
siteName	testSite1	The modified value
capacity	80	The modified value

### Request address:

<https://www.solaxcloud.com/api/v2/siteMng/update>

### Request message:

```
{
  "siteName":"testSite1",
  "capacity":"80",
  "loginName":"123**6@solaxpower.com",
  "longitude":"114.380571",
  "latitude":"30.47305",
  "nation":"UNITED STATES",
  "timezone":76,
  "id":"2023*****0001"
}
```

### Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

### The explanation of reply:

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message

result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

### 7.3.4. Set electricity price

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/siteMng/price/edit		
Content Type	application/json		
HTTP Method	POST		
	siteId	Yes	The power site number
	currencyCode	Yes	Currency types, the mapping relationships can be found in Appendix 4 "Currency Code Mapping"
	elecInPrice	Yes	Electricity purchasing price and time period, JSON
	elecOutPrice	Yes	Electricity selling price and time period, JSON
	chargingRatePrice	No	The price of charging station.
	priceArea	No	The electricity price location.
	priceOutType	Yes	Electricity selling 2, customized
	priceInType	Yes	Electricity purchasing 2, customized

## Example

Set the information of power site [2023\*\*\*\*\*0001], the currency is [AUD], the electricity purchasing price is [1].

Set the elecInPrice is [00:00~01:00] price '1', and the elecOutPrice is [01:01~01:30] price '4'.

Parameter	Value
siteId	2023*****A001
currencyCode	AUD
priceInType	2
priceOutType	2
chargingRatePrice	1
elecInPrice	[{'timeStart':'00:00','timeEnd':'01:00','price':'1'}]
elecOutPrice	[{'timeStart':'01:01','timeEnd':'01:30','price':'4'}]

### Request address:

<https://www.solaxcloud.com/api/v2/siteMng/price/edit>

### Request message:

```
{
  "siteId":"2023*****A001",
  "currencyCode":"AUD",
  "priceInType":"2",
  "priceOutType":"2",
  "chargingRatePrice":"1",
  "elecInPrice": "[{'timeStart':'00:00','timeEnd':'01:00','price':'1'}]",
  "elecOutPrice": "[{'timeStart':'01:01','timeEnd':'01:30','price':'4'}]"
}
```

### Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

**The explanation of reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

### 7.3.5. Get the electricity price

**The format of requested data**

Type	Definition	Must	Description
Partial URL	/api/v2/siteMng/price/ get		
Content Type	application/json		
HTTP Method	POST		
	siteId	Yes	The power site number

**Example**

Inquire the information of power site which the siteId is [2023\*\*\*\*\*0001] about electricity price.

Parameter	Value
siteId	2023*****A001

**Request address:**

<https://www.solaxcloud.com/api/v2/siteMng/price/get>

**Request message:**

```
{
  "siteId": 2023*****A001
}
```

```
}

```

**Reply message:**

```
{
  "success": true,
  "exception": "",
  "result": {
    "siteId": "2023*****A001",
    "currencyCode": "AUD",
    "elecInPrice": "[{\"timeStart\":\"0\",\"timeEnd\":\"3600\",\"price\":\"1\"}]",
    "elecOutPrice": "[{\"timeStart\":\"0\",\"timeEnd\":\"1800\",\"price\":\"4\"}]",
    "priceInType": 2,
    "priceOutType": 2,
    "priceArea": null,
    "nation": "UNITED STATES",
    "chargingRatePrice": "1"
  },
  "code": 0
}
```

**The explanation of reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
siteId	String	The power site number
currencyCode	String	Currency types
elecInPrice	String	Electricity purchasing price
elecOutPrice	String	Electricity selling price
timeStart	String	The start time
timeEnd	String	The end time
price	String	Electricity price
priceInType	Integer	Electricity purchasing 2, customized
priceOutType	Integer	Electricity selling 2, customized
priceArea	String	The electricity price location.

nation	String	Country & Area
chargingRatePrice	String	The price of charging station.
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

## 7.4. Device management

### 7.4.1. Binding registration number

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/deviceMng/wifi Sn/bind		
Content Type	application/json		
HTTP Method	POST		
Request Content	wifiSn	Yes	Registration number wifiSN
	siteId	No	Power site ID
	timeZone	No	The time zone ID, mapping relationship can be found in Appendix 1 "Time Zone Mapping" When siteId is empty (create power site) , timeZone must be filled
	userId	Yes	End-user id

#### Example

Request wifisn [SUT\*\*\*VB1] to bind with userId [2023\*\*\*\*\*0001].

**Request address:**

<https://www.solaxcloud.com/api/v2/deviceMng/wifiSn/bind>

**Request message:**

```
{
  "wifiSn": "SUT****VB1",
  "userId": "2023*****0001",
  "timeZone": 76
}
```

**Reply message:**

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

**The explanation of reply:**

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

## 7.4.2. Unbind registration number

**The format of requested data**

Type	Definition	Must	Description
Partial URL	/api/v2/deviceMng/wifi Sn/unbind		
Content Type	application/json		

HTTP Method	POST		
Request Content	wifiSns	Yes	Registration number wifiSN is separated by multiple commas, up to ten

## Example

wifiSns SUT\*\*\*\*VB1, SUT\*\*\*\*VB2, SUT\*\*\*\*VB3 are requested to unbind;

### Request address:

<https://www.solaxcloud.com/api/v2/deviceMng/wifiSn/unbind>

### Request message:

```
{
  "wifiSns": "SUT****VB1,SUT****VB2,SUT****VB13"
}
```

### Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

### The explanation of reply:

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"



## 8. Device data push

After the device reports data, Solax will push all devices information under the account to the specified URL.

| If it needs to obtain the information of a specified SN, it is recommended to use the [8.1 Inquire real time data] interface.

### 8.1. Data Subscription

#### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/dataPush/subscribeAddr/add		
Content Type	application/json		
HTTP Method	POST		
Request Content	callbackUrl	Yes	Address of data pushing
	type	Yes	Subscription type ( 1 : real-time data 2: control data)

#### Example

callbackUrl is [https://ip:port/callbackUrlTest];

#### Request address:

<https://www.solaxcloud.com/api/v2/dataPush/subscribeAddr/add>

#### Request message:

```
{
  "callbackUrl": "https://ip:port/callbackUrlTest",
  "type": "1"
}
```

#### Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

#### The explanation of reply:

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

## 8.2. Unsubscribe

### The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/dataPush/subsc ribeAddr/del		
Content Type	application/json		
HTTP Method	POST		
Request Content	callbackUrl	Yes	Address of data pushing
	type	Yes	Subscription type ( 1 : real-time data 2: control data)

## Example

callbackUrl is [https://ip:port/callbackUrlTest];

### Request address:

<https://www.solaxcloud.com/api/v2/dataPush/subscribeAddr/del>

### Request message:

```
{
  "callbackUrl": "https://ip:port/callbackUrlTest",
  "type": "1"
}
```

### Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

### The explanation of reply:

Name	Type	Description
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

## 9. EV Charger control

### 9.1. EV Charger setting query

The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/charger/getInfo		
Content Type	application/json		
HTTP Method	GET		
	sn	Yes	EV Charger sn

#### Example

Request address:

<https://www.solaxcloud.com/api/v2/charger/getInfo>

Request message:

```
{
  "sn": "C****5G18003"
}
```

Reply message:

```
{
  "success": true,
  "exception": "query success",
  "result": {
    "deviceState": 0,
    "deviceMode": 0,
    "currentA": 0.0,
    "currentB": 0.0,
    "currentC": 0.0,
    "sn": "C****5G18003",
    "faultCode": "0",
    "rfidCode": "0",
  }
}
```

```

        "eqTotal": "0"
    },
    "code": 0
}
    
```

### The explanation of reply:

名称	类型	描述
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

### resultdetailed data

名称	类型	描述
deviceState	Integer	0: Available 1: Preparing 2: Charging 3: Finishing 4: Faulted 5: Unavailable 6: Reserved 7: SuspendedEV 8: SuspendedEVSE 9: Update
deviceMode	Integer	Device work mode 0: STOP 1: FAST 2: ECO 3: GREEN

current	Integer	Single-phase current
currentA	Double	Three-phase current - Phase A current
currentB	Double	Three-phase current - Phase B current
currentC	Double	Three-phase current - Phase C current
sn	String	EV Charger sn
faultCode	String	Fault codes, separated by commas
rfidCode	String	RFID code
chargeEnergyTotal	Double	Accumulated charging power

## 9.2. Set EV Charger WorkMode

The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/charger/setMode		
Content Type	application/json		
HTTP Method	POST		
	sn	Yes	EV Charger sn
	mode	Yes	WorkMode 0: STOP 1: FAST 2: ECO 3: GREEN
	current	Yes	current setting STOP: No need to set GREEN setting range: 3、6 ECOsetting range: 6、10、16、20、25 FAST setting range: 6 到 32

## Example

Request address:

<https://www.solaxcloud.com/api/v2/charger/setMode>

Request message:

```
{
  "sn": "C****5G18003",
  "mode": 1,
  "current": 6
}
```

Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

The explanation of reply:

名称	类型	描述
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

## 9.3. Set EV Charger StartMode

The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/charger/startMode		

Content Type	application/json		
HTTP Method	POST		
	sn	Yes	EV Charger sn
	mode	Yes	StartMode 0: plug and play 1: swipe card to start 2: APP

## Example

Request address:

<https://www.solaxcloud.com/api/v2/charger/startMode>

Request message:

```
{
  "sn": "C****5G18003",
  "mode": 1,
}
```

Reply message:

```
{
  "success": true,
  "exception": "operation success",
  "result": null,
  "code": 0
}
```

The explanation of reply:

名称	类型	描述
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Object	Concrete data returned
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"



## 9.4. Setting Result query

The format of requested data

Type	Definition	Must	Description
Partial URL	/api/v2/setting/result		
Content Type	application/json		
HTTP Method	GET		
	taskId	Yes	taskId

### Example

Request address:

<https://www.solaxcloud.com/api/v2/setting/result?taskId=cca154914c8b43d5b95abe7c314272>

Request message:

无

回复信息:

```
{
  "success":true,
  "exception":"operation success",
  "result":0,
  "code":0
}
```

The explanation of reply:

名称	类型	描述
success	Boolean	true=successful, false=unsuccessful
exception	String	error message
result	Integer	0: set successful 1: set unsuccessful

		2: device not responding 3: no settings found
code	Integer	0: successful, Other codes can be found in Appendix 10.5 "Error Codes"

## 10. Appendix

### 10.1. Country Table

contry	value
Afghanistan	AFGHANISTAN
Albania	ALBANIA
Algeria	ALGERIA
American Samoa	AMERICAN SAMOA
Andorra	ANDORRA
Angola	ANGOLA
Anguilla	ANGUILLA
Antarctica	ANTARCTICA
Antigua and Barbuda	ANTIGUA AND BARBUDA
Argentina	ARGENTINA
Armenia	ARMENIA
Aruba	ARUBA
Australia	AUSTRALIA
Austria	AUSTRIA
Azerbaijan	AZERBAIJAN
Bahamas	BAHAMAS
Bahrain	BAHRAIN
Bangladesh	BANGLADESH

Barbados	BARBADOS
Belarus	BELARUS
Belgium	BELGIUM
Belize	BELIZE
Benin	BENIN
Bermuda	BERMUDA
Bhutan	BHUTAN
Bolivia	BOLIVIA
Bosnia and Herzegovina	BOSNIA AND HERZEGOVINA
Botswana	BOTSWANA
Bouvet Island	BOUVET ISLAND
Brazil	BRAZIL
British Indian Ocean Territory	BRITISH INDIAN OCEAN TER-RITORY
Brunei Darussalam	BRUNEI DARUSSALAM
Bulgaria	BULGARIA
Burkina Faso	BURKINA FASO
Burundi	BURUNDI
Cambodia	CAMBODIA
Cameroon	CAMEROON
Canada	CANADA
Cape Verde	CAPE VERDE
Cayman Islands	CAYMAN ISLANDS
Central Africa	CENTRAL AFRICA
Chad	CHAD
Chile	CHILE
China	China
Christmas Island	CHRISTMAS ISLAND
Cocos (Keeling) Islands	COCOS (KEELING) ISLANDS
Colombia	COLOMBIA

Comoros	COMOROS
Congo (Brazzaville)	CONGO
Democratic Republic of the Congo	CONGO, THE DEMOCRATIC REPUBLIC OF THE
Cook Islands	COOK ISLANDS
Costa Rica	COSTA RICA
Cote D' Ivoire	COTE D' IVOIRE
Croatia	CROATIA
Cuba	CUBA
Cyprus	CYPRUS
Czech Republic	CZECH REPUBLIC
Denmark	DENMARK
Djibouti	DJIBOUTI
Dominica	DOMINICA
Dominican Republic	DOMINICAN REPUBLIC
East Timor	EAST TIMOR
Ecuador	ECUADOR
Egypt	EGYPT
EL Salvador	EL SALVADOR
Equatorial Guinea	EQUATORIAL GUINEA
Eritrea	ERITREA
Estonia	ESTONIA
Ethiopia	ETHIOPIA
Falkland Islands (Malvinas)	FALKLAND ISLANDS (MALVINAS)
Faroe Islands	FAROE ISLANDS
Fiji	FIJI
Finland	FINLAND
France	FRANCE
French Guiana	FRENCH GUIANA
French Polynesia	FRENCH POLYNESIA

French Southern Territories	FRENCH SOUTHERN TERRITORIES
Gabon	GABON
Gambia	Gambia
Georgia	GEORGIA
Germany	GERMANY
Ghana	GHANA
Gibraltar	GIBRALTAR
Greece	GREECE
Greenland	GREENLAND
Grenada	GRENADA
Guadeloupe	GUADELOUPE
Guam	GUAM
Guatemala	GUATEMALA
Guinea	GUINEA
Guinea-Bissau	GUINE-BISSAU
Guyana	GUYANA
Haiti	HAITI
Heard Island and MacDonal d Island	HEARD ISLANDS AND MC DONALD ISLANDS
Honduras	HONDURAS
Hungary	HUNGARY
Iceland	ICELAND
India	INDIA
Indonesia	INDONESIA
Iran	IRAN
Iraq	IRAQ
Ireland	IRELAND
Israel	ISRAEL
Italy	ITALY
Jamaica	JAMAICA

Japan	JAPAN
Jordan	JORDAN
Kazakhstan	KAZAKHSTAN
Kenya	KENYA
Kiribati	KIRIBATI
Democratic People's Republic of Korea	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
Republic of Korea	KOREA, REPUBLIC OF
Kuwait	KUWAIT
Kyrgyzstan	KYRGYZSTAN
Laos	LAOS
Latvia	LATVIA
Lebanon	LEBANON
Lesotho	LESOTHO
Liberia	LIBERIA
Libya	LIBYA
Liechtenstein	LIECHTENSTEIN
Lithuania	LITHUANIA
Luxembourg	LUXEMBOURG
Former South Macedonia	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
Madagascar	MADAGASCAR
Malawi	MALAWI
Malaysia	MALAYSIA
Maldives	MALDIVES
Mali	MALI
Malta	MALTA
Marshall Islands	MARSHALL ISLANDS
Martinique	MARTINIQUE

Mauritania	MAURITANIA
Mauritius	MAURITIUS
Mayotte	MAYOTTE
Mexico	MEXICO
The Federated States of Micronesia	MICRONESIA, FEDERATED STATES OF
Moldova	MOLDOVA
Monaco	MONACO
Mongolia	MONGOLIA
Montserrat	MONTSERRAT
Morocco	MOROCCO
Mozambique	MOZAMBIQUE
Burma	MYANMAR
Namibia	NAMIBIA
Nauru	NAURU
Nepal	NEPAL
Holland	NETHERLANDS
The Netherlands Antilles	NETHERLANDS ANTILLES
New Caledonia	NEW CALEDONIA
NZ	NEW ZEALAND
Nicaragua	NICARAGUA
The Niger	NIGER
Nigeria	NIGERIA
Niue	NIUE
Norfolk Island	NORFOLK ISLAND
The Northern Mariana	NORTHERN MARIANAS
Norse	NORWAY
Oman	OMAN
Pakistan	PAKISTAN
Palau	PALAU

Palestine	PALESTINE
Panama	PANAMA
Papua New Guinea	PAPUA NEW GUINEA
Paraguay	PARAGUAY
Peru	PERU
The Philippines	PHILIPPINES
Pitcairn Islands	PITCAIRN ISLANDS GROUP
Poland	POLAND
Portugal	PORTUGAL
Puerto Rico	PUERTO RICO
Qatar	QATAR
Reunion	REUNION
Romania	ROMANIA
Russian Federation	RUSSIAN FEDERATION
Rwanda	RWANDA
St. Helena	SAINT HELENA
Saint Kitts and Nevis	SAINT KITTS AND NEVIS
Saint Lucia	SAINT LUCIA
Saint Pierre and Miquelon	SAINT PIERRE AND MIQUELON
Saint Vincent and the Grenadines	SAINT VINCENT AND THE GRENADINES
Samoa	SAMOA
SAN Marino	SAN MARION
SAO Tome and Principe	SAO TOME AND PRINCIPE
Saudi Arabia	SAUDI ARABIA
Senegal	SENEGAL
Seychelles	SEYCHELLS
Sierra Leone	SIERRA LEONE
Singapore	SINGAPORE
Slovakia	SLOVAKIA



Slovenia	SLOVENIA
Solomon Islands	SOLOMON ISLANDS
Somalia	SOMALIA
S. Africa	SOUTH AFRICA
South Georgia Island and South Sandwich Island	SOUTH GEORGIA AND SOUTH SANDWICH ISLANDS
Spain	SPAIN
Sri Lanka	SRI LANKA
Sudan	SUDAN
Suriname	SURINAME
Svalbard	SVALBARD AND JAN MAYEN ISLANDS
Eswatini	SWAZILAND
Sweden	SWEDEN
Switzerland	SWITZERLAND
Syria	SYRIA
Tajikistan	TAJIKISTAN
Tanzania	TANZANIA
Thailand	THAILAND
Togo	TOGO
Tokelau	TOKELAU
Tonga	TONGA
Trinidad and Tobago	TRINIDAD AND TOBAGO
Tunisia	TUNISIA
Turkey	TURKEY
Turkmenistan	TURKMENISTAN
The Turks Islands	TURKS AND CAICOS ISLANDS
Tuvalu	TUVALU
Uganda	UGANDA
Ukraine	UKRAINE

The United Arab Emirates	UNITED ARAB EMIRATES
Britain	UNITED KINGDOM
America	UNITED STATES
A small island off the mainland United States	UNITED STATES MINOR OUTLYING ISLANDS
Uruguay	URUGUAY
Uzbekistan	UZBEKISTAN
Vanuatu	VANUATU
Vatican	VATICAN
Venezuela	VENEZUELA
Vietnam	VIET NAM
British Virgin Islands	VIRGIN ISLANDS, BRITISH
United States Virgin Islands	VIRGIN ISLANDS, U. S.
Wallis and Futuna	WALLIS AND FUTUNA
Western Sahara	WESTERN SAHARA
Yemen	YEMEN
Yugoslavia	YUGOSLAVIA
Zambia	ZAMBIA
Zimbabwe	ZIMBABWE
Serbia	Serbia
Kosovo	Kosovo

## 10.2. Time zone mapping

id	timeZone	timeZoneValue
1	(UTC-12:00) International Date Line West	(UTC-12:00) International Date Line West
3	(UTC-11:00) Coordinated Universal Time-11	(UTC-11:00) Coordinated Universal Time-11
4	(UTC-10:00) Hawaii	(UTC-10:00) Hawaii

5	(UTC-09:00)Alaska	(UTC-09:00)Alaska
6	(UTC-08:00)Pacific Time (US & Canada)	(UTC-08:00)Pacific Time (US & Canada)
7	(UTC-08:00)Baja California	(UTC-08:00)Baja California
8	(UTC-07:00)Chihuahua, La Paz, Mazatlan	(UTC-07:00)Chihuahua, La Paz, Mazatlan
9	(UTC-07:00)Mountain Time (US & Canada)	(UTC-07:00)Mountain Time (US & Canada)
10	(UTC-07:00)Arizona	(UTC-07:00)Arizona
11	(UTC-06:00)Guadalajara, Mexico City, Monterrey	(UTC-06:00)Guadalajara, Mexico City, Monterrey
12	(UTC-06:00)Saskatchewan	(UTC-06:00)Saskatchewan
13	(UTC-06:00)Central Time (US & Canada)	(UTC-06:00)Central Time (US & Canada)
14	(UTC-06:00)Central America	(UTC-06:00)Central America
15	(UTC-05:00)Bogota, Lima, Quito	(UTC-05:00)Bogota, Lima, Quito
16	(UTC-05:00)Eastern Time (US & Canada)	(UTC-05:00)Eastern Time (US & Canada)
17	(UTC-05:00)Indiana (East)	(UTC-05:00)Indiana (East)
18	(UTC-04:30)Caracas	(UTC-04:30)Caracas
19	(UTC-04:00)Atlantic Time (Canada)	(UTC-04:00)Atlantic Time (Canada)
20	(UTC-04:00)Cuiaba	(UTC-04:00)Cuiaba
21	(UTC-04:00)Georgetown, La Paz, Manaus, San Juan	(UTC-04:00)Georgetown, La Paz, Manaus, San Juan
22	(UTC-04:00)Santiago	(UTC-04:00)Santiago
23	(UTC-04:00)Asuncion	(UTC-04:00)Asuncion
24	(UTC-03:30)Newfoundland	(UTC-03:30)Newfoundland
25	(UTC-03:00)Brasilia	(UTC-03:00)Brasilia
26	(UTC-03:00)Buenos Aires	(UTC-03:00)Buenos Aires
27	(UTC-03:00)Greenland	(UTC-03:00)Greenland
28	(UTC-03:00)Cayenne, Fortaleza	(UTC-03:00)Cayenne, Fortaleza
29	(UTC-03:00)Montevideo	(UTC-03:00)Montevideo

30	(UTC-02:00) Coordinated Universal Time-02	(UTC-02:00) Coordinated Universal Time-02
31	(UTC-02:00) Mid-Atlantic	(UTC-02:00) Mid-Atlantic
32	(UTC-01:00) Cape Verde Is.	(UTC-01:00) Cape Verde Is.
33	(UTC-01:00) Azores	(UTC-01:00) Azores
34	(UTC+00:00) Dublin, Edinburgh, Lisbon, London	(UTC+00:00) Dublin, Edinburgh, Lisbon, London
35	(UTC+00:00) Casablanca	(UTC+00:00) Casablanca
36	(UTC+00:00) Monrovia, Reykjavik	(UTC+00:00) Monrovia, Reykjavik
37	(UTC+00:00) Coordinated Universal Time	(UTC+00:00) Coordinated Universal Time
38	(UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna	(UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
39	(UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague	(UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
40	(UTC+01:00) Brussels, Copenhagen, Madrid, Paris	(UTC+01:00) Brussels, Copenhagen, Madrid, Paris
41	(UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb	(UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb
42	(UTC+01:00) Windhoek	(UTC+01:00) Windhoek
43	(UTC+01:00) West Central Africa	(UTC+01:00) West Central Africa
44	(UTC+02:00) Amman	(UTC+02:00) Amman
45	(UTC+02:00) Beirut	(UTC+02:00) Beirut
46	(UTC+02:00) Damascus	(UTC+02:00) Damascus
47	(UTC+02:00) Harare, Pretoria	(UTC+02:00) Harare, Pretoria
48	(UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius	(UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius
49	(UTC+02:00) Cairo	(UTC+02:00) Cairo
50	(UTC+02:00) Minsk	(UTC+02:00) Minsk
51	(UTC+02:00) Athens, Bucharest, Istanbul	(UTC+02:00) Athens, Bucharest, Istanbul
52	(UTC+02:00) Jerusalem	(UTC+02:00) Jerusalem
53	(UTC+03:00) Baghdad	(UTC+03:00) Baghdad

54	(UTC+03:00) Kuwait, Riyadh	(UTC+03:00) Kuwait, Riyadh
55	(UTC+03:00) Moscow, St. Petersburg, Volgograd	(UTC+03:00) Moscow, St. Petersburg, Volgograd
56	(UTC+03:00) Nairobi	(UTC+03:00) Nairobi
57	(UTC+03:30) Tehran	(UTC+03:30) Tehran
58	(UTC+04:00) Abu Dhabi, Muscat	(UTC+04:00) Abu Dhabi, Muscat
59	(UTC+04:00) Yerevan	(UTC+04:00) Yerevan
60	(UTC+04:00) Baku	(UTC+04:00) Baku
61	(UTC+04:00) Tbilisi	(UTC+04:00) Tbilisi
62	(UTC+04:00) Port Louis	(UTC+04:00) Port Louis
63	(UTC+04:30) Kabul	(UTC+04:30) Kabul
64	(UTC+05:00) Tashkent	(UTC+05:00) Tashkent
65	(UTC+05:00) Ekaterinburg	(UTC+05:00) Ekaterinburg
66	(UTC+05:00) Islamabad, Karachi	(UTC+05:00) Islamabad, Karachi
67	(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi	(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi
68	(UTC+05:30) Sri Jayawardenepura	(UTC+05:30) Sri Jayawardenepura
69	(UTC+05:45) Kathmandu	(UTC+05:45) Kathmandu
70	(UTC+06:00) Astana	(UTC+06:00) Astana
71	(UTC+06:00) Dhaka	(UTC+06:00) Dhaka
72	(UTC+06:00) Novosibirsk	(UTC+06:00) Novosibirsk
73	(UTC+06:30) Yangon (Rangoon)	(UTC+06:30) Yangon (Rangoon)
74	(UTC+07:00) Krasnoyarsk	(UTC+07:00) Krasnoyarsk
75	(UTC+07:00) Bangkok, Hanoi, Jakarta	(UTC+07:00) Bangkok, Hanoi, Jakarta
76	(UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi	(UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi
77	(UTC+08:00) Kuala Lumpur, Singapore	(UTC+08:00) Kuala Lumpur, Singapore
78	(UTC+08:00) Perth	(UTC+08:00) Perth
79	(UTC+08:00) Taipei	(UTC+08:00) Taipei

80	(UTC+08:00) Ulaanbaatar	(UTC+08:00) Ulaanbaatar
81	(UTC+08:00) Irkutsk	(UTC+08:00) Irkutsk
82	(UTC+09:00) Osaka, Sapporo, Tokyo	(UTC+09:00) Osaka, Sapporo, Tokyo
83	(UTC+09:00) Seoul	(UTC+09:00) Seoul
84	(UTC+09:00) Yakutsk	(UTC+09:00) Yakutsk
85	(UTC+09:30) Adelaide	(UTC+09:30) Adelaide
86	(UTC+09:30) Darwin	(UTC+09:30) Darwin
87	(UTC+10:00) Brisbane	(UTC+10:00) Brisbane
88	(UTC+10:00) Vladivostok	(UTC+10:00) Vladivostok
89	(UTC+10:00) Guam, Port Moresby	(UTC+10:00) Guam, Port Moresby
90	(UTC+10:00) Hobart	(UTC+10:00) Hobart
91	(UTC+10:00) Canberra, Melbourne, Sydney	(UTC+10:00) Canberra, Melbourne, Sydney
92	(UTC+11:00) Magadan	(UTC+11:00) Magadan
93	(UTC+11:00) Solomon Is., New Caledonia	(UTC+11:00) Solomon Is., New Caledonia
94	(UTC+12:00) Auckland, Wellington	(UTC+12:00) Auckland, Wellington
95	(UTC+12:00) Fiji	(UTC+12:00) Fiji
96	(UTC+12:00) Coordinated Universal Time+12	(UTC+12:00) Coordinated Universal Time+12
97	(UTC+13:00) Nuku'alofa	(UTC+13:00) Nuku'alofa
195	(UTC+13:00) Samoa	(UTC+13:00) Samoa

## 10.3. Device Type Mapping

### EV Charger

type	value
X1/X3-EVC	1
X1/X3-EVC G1.1	2

## 10.4. Currency Code Mapping

Number	Currency type	Value
AUD	Australia Dollar	Australia Dollar
RMB	Chinese Yuan	Chinese Yuan
EUR	Euro	Euro
GBP	British Pound	British Pound
INR	Indian Rupee	Indian Rupee
NZD	New Zealand Dollar	New Zealand Dollar
PKR	Pakistan Rupee	Pakistan Rupee
USD	United States Dollar	United States Dollar
ZAR	South African Rand	South African Rand
BRL	Brazilian real	Brazilian real
PLN	Polish zlote	Polish zlote
PHP	Philippine Peso	Philippine Peso
MAD	Moroccan Dirham	Moroccan Dirham
THB	Thai Baht	Thai Baht

## 10.5. Error code

Error code	Returned message
1001	Interface has no permissions
1002	Parameter verification failed
1003	Data without permission
1004	Repeated data
2001	Operate unsuccessfully
2002	Data not found