
JIMI Open API Specification

Version	Date	Writer	Content updated
V1.0	2017/03/29	Yao Jianping	The initial release
V1.1	2017/04/18	Yao Jianping	Modify the interface parameter description
V1.2	2017/04/27	Yao Jianping	Unify all interface url; Perfect interface return attributes description; Add return examples
V1.2	2017/05/09	Yao Jianping	Add external power voltage attributes in 7.8 and 7.9; Add api type in chapter 6; Delete alarm push interface; Add 7.17
V1.3	2017/06/15	Yao Jianping	Modify 7.5. Add refreshToken and time in returned json; Add 7.6: refresh accessToken Add 7.7: create sub-account; Add 7.19: acquire device location map
V1.4	2017/07/20	Yao Jianping	Midify 4, add the error code Modify the 7.3 section, 0.9 version added in the general parameters v Modify Section 7.7 , user type attribute added Add Device Transfer in section 7.20
V1.5	2017-07-31	Yao Jianping	Add API Add 7.21 7.22 7.23
V1.6	2017-10-24	Jeff Wang	make document more readable.
V1.6.1	2018-04-22	Jeff Wang	Add field distance for jimi.device.location.get.
V1.6.2	2018-09-08	Jeff Wang	Add device_status parameter for jimi.open.device.update interface to disable/enable device.
V1.6.3	2018-09-10	Jeff Wang	Add jimi.track.device.detail interface
V1.6.4	2018-10-2	Jeff Wang	Add create account & remove account interface.
V1.6.5	2018-12-6	Jeff Wang	Add get sharing location URL interface. Add move account interface. Add additional fields for get device info interface. Add update user expiration date interface.
V1.6.6	2018-03-08	Jeff Wang	Add get mileage interface.
V1.6.7	2019-04-24	Jeff Wang	Add DVR live streaming page URL Add get alarm list
V2.1	2019-05-15	Jeff Wang	Add Scooter API support
V2.2	2019-06-20	Jeff Wang	Add camera photo URL & video URL interface
V2.3	2019-11-07	Jeff Wang	Add send/receive raw command interface.

V2.4	2020-02-11	Zou Zeliang	Add camera photo or video instructions interface
V2.5	2020-07-28	dengjie	Add get video rtmp url interface
v2.5	2020-12-09	chenkuan	Add temperature and oil sense fields to the device real-time data API interface
V2.6	2021-01-28	chenkuan	Add API Add 7.38
V2.7	2021-04-09	darcy	Add optional attributes (machineName) of model alias, Modified interface: jimi.user.device.list (7.11) jimi.track.device.detail (7.12)
V2.7.1	2022-07-04	Lin Wen Jun	Add API: jimi.user.child.update
V2.7.2	2023-01-10	Li Qinye	Add API: 7.40: Get parking/idling data of devices 7.41: Create platform Geo-fence 7.42: Edit platform Geo-fence 7.43: Delete platform Geo-fence 7.44: Geo-fence related device Add currentMileage parameter for jimi.track.device.detail to get the current mileage of the device
V2.7.3	2023-02-15	Li Qinye	Deprecated API: 7.33: Send command (for scooter device) 7.34: Get detail information of scooter
V2.7.4	2023-04-07	Li Qinye	Add API: 7.14: Get the location of device(s) Add gpsNum、currentMileage、trackerOil parameter
V2.7.5	2023-05-24	Li Qinye	Add API: 7.17: Get the mileage data of devices Add totalMileage parameter
V2.7.6	2023-07-20	Li Qinye	Add API: 7.45: List platform geofences of an account
V2.7.7	2024-04-17	Li Qinye	Add API: 7.46: Move devices 7.47: Get RFID reporting information

1 Contents

JIMI OPEN API SPECIFICATION	1
1 CONTENTS	2
2 OVERVIEW	7
3 USAGE	7
4 CONVENTIONS	8
4.1 ENCODING, FORMAT & TIMEZONE	8
4.2 COMMON RESPONSE FIELDS	8

5 WORK FLOW	10
5.1 API WORK FLOW	10
6 API FEATURES	10
7 API DESCRIPTION	12
7.1 REQUEST URL	12
7.2 SECURITY	12
7.3 COMMON PARAMETERS	12
7.4 SIGNATURE	13
7.5 GET ACCESS TOKEN	15
7.5.1 Description	15
7.5.2 Request URL	15
7.5.3 HTTP request method	15
7.5.4 Request parameter	15
7.5.5 Response	16
7.6 REFRESH ACCESS TOKEN	17
7.6.1 Description	17
7.6.2 Request URL	17
7.6.3 HTTP Request method	17
7.6.4 Request parameters	18
7.6.5 Response	18
7.7 LIST ALL SUB-ACCOUNT	19
7.7.1 Description	19
7.7.2 Request URL	19
7.7.3 HTTP request method	19
7.7.4 Request parameters	19
7.7.5 Response	19
7.8 CREATE SUB-ACCOUNT	21
7.8.1 Description	21
7.8.2 Request URL	21
7.8.3 HTTP request method	21
7.8.4 Request parameters	21
7.8.5 Response	22
7.9 REMOVE SUB-ACCOUNT	22
7.9.1 Description	22
7.9.2 Request URL	22
7.9.3 HTTP request method	22
7.9.4 Request parameters	23
7.9.5 Response	23
7.10 MOVE ACCOUNT	23
7.10.1 Description	23
7.10.2 Request URL	24
7.10.3 HTTP request method	24
7.10.4 Request parameters	24
7.10.5 Response	24
7.11 LIST ALL DEVICES OF SUB-ACCOUNT	25
7.11.1 Description	25
7.11.2 Request URL	25
7.11.3 HTTP request method	25
7.11.4 Request parameters	25
7.11.5 Response	25
7.12 GET DEVICE DETAIL INFORMATION	27
7.12.1 Description	27
7.12.2 Request URL	27
7.12.3 HTTP request method	27
7.12.4 Request parameters	27
7.12.5 Response	27
7.13 GET LOCATION OF DEVICES BY ACCOUNT	29

7.13.1 Description	29
7.13.2 Request URL	29
7.13.3 HTTP request method	29
7.13.4 Request parameters	29
7.13.5 Response	30
7.14 GET THE LOCATION OF DEVICE(S)	31
7.14.1 Description	31
7.14.2 Request URL	31
7.14.3 HTTP request method	32
7.14.4 Request parameters	32
7.14.5 Response	32
7.15 GET SHARING LOCATION URL	34
7.15.1 Description	34
7.15.2 Request URL	34
7.15.3 HTTP request method	34
7.15.4 Request parameters	34
7.15.5 Response	34
7.16 UPDATE USER EXPIRATION DATE	35
7.16.1 Description	35
7.16.2 Request URL	35
7.16.3 HTTP request method	35
7.16.4 Request parameters	35
7.16.5 Response	36
7.17 GET THE MILEAGE DATA OF DEVICES	36
7.17.1 Description	36
7.17.2 Request URL	36
7.17.3 HTTP request method	37
7.17.4 Request parameters	37
7.17.5 Response	37
7.18 GET THE TRACK DATA OF DEVICE	39
7.18.1 Description	39
7.18.2 Request URL	39
7.18.3 HTTP request method	39
7.18.4 Request parameters	39
7.18.5 Response	39
7.19 UPDATE VEHICLE INFORMATION BY IMEI	40
7.19.1 Description	40
7.19.2 Request URL	41
7.19.3 HTTP request method	41
7.19.4 Request parameters	41
7.19.5 Response	41
7.20 GET DEVICE PHOTO OR VIDEO URL	42
7.20.1 Description	42
7.20.2 Request URL	42
7.20.3 HTTP request method	42
7.20.4 Request parameters	42
7.20.5 Response	43
7.21 GET DEVICE LIVE STEAMING PAGE URL	44
7.21.1 Description	44
7.21.2 Request URL	44
7.21.3 HTTP request method	44
7.21.4 Request parameters	44
7.21.5 Response	45
7.22 WI-FI, BASE STATION LOCATING ANALYSIS	46
7.22.1 Description	46
7.22.2 Request URL	46
7.22.3 HTTP request method	46
7.22.4 Request parameters	46
7.22.5 Response	47

7.23 CREATE GEO-FENCE FOR IMEI	47
7.23.1 Description	47
7.23.2 Request URL	47
7.23.3 HTTP request method	48
7.23.4 Request parameters	48
7.23.5 Response	48
7.24 DELETE GEO-FENCE FOR DEVICE	49
7.24.1 Description	49
7.24.2 Request URL	49
7.24.3 HTTP request method	49
7.24.4 Request parameters	49
7.24.5 Response	49
7.25 GET COMMAND LIST SUPPORTED BY DEVICE	50
7.25.1 Description	50
7.25.2 Request URL	50
7.25.3 HTTP request method	50
7.25.4 Request parameters	50
7.25.5 Response	51
7.26 SEND COMMAND TO DEVICE	52
7.26.1 Description	52
7.26.2 Request URL	52
7.26.3 HTTP request method	52
7.26.4 Request parameters	52
7.26.5 Response	53
7.27 GET RESULTS OF COMMAND EXECUTION	53
7.27.1 Description	53
7.27.2 Request URL	53
7.27.3 HTTP request method	53
7.27.4 Request parameters	54
7.27.5 Response	54
7.28 SEND RAW COMMAND DATA TO DEVICE	55
7.28.1 Description	55
7.28.2 Request URL	55
7.28.3 HTTP request method	55
7.28.4 Request parameters	55
7.28.5 Response	56
7.29 PUSH RECEIVED RAW DATA	56
7.29.1 Description	56
7.29.2 Message service List	56
7.29.3 Message content (<i>jimi.open.instruction.raw.receive</i>)	57
7.30 SEND MEDIA INSTRUCTION	57
7.30.1 Description	57
7.30.2 Request URL	57
7.30.3 HTTP request method	58
7.30.4 Request parameters	58
7.30.5 Response	58
7.31 RECEIVE NOTIFICATION	59
7.31.1 Description	59
7.31.2 Message service List	59
7.31.3 Message content (<i>jimi.push.device.alarm</i>)	59
7.32 GET DEVICE ALARM LIST	60
7.32.1 Description	60
7.32.2 Request URL	60
7.32.3 HTTP request method	60
7.32.4 Request parameters	60
7.32.5 Response	61
7.33 (DEPRECATED)SEND COMMAND (FOR SCOOTER DEVICE)	62
7.34 (DEPRECATED)GET DETAIL INFORMATION OF SCOOTER	62
7.35 GET HISTORY VIDEO LIST	62

7.35.1 Description	62
7.35.2 Request URL	62
7.35.3 HTTP request method	62
7.35.4 Request parameters	62
7.35.5 Response	63
7.36 SEND HISTORY VIDEO INSTRUCTION	64
7.36.1 Description	64
7.36.2 Request URL	64
7.36.3 HTTP request method	64
7.36.4 Request parameters	64
7.36.5 Response	65
7.37 GET VIDEO RTMP URL	65
7.37.1 Description	65
7.37.2 Request URL	65
7.37.3 HTTP request method	66
7.37.4 Request parameters	66
7.37.5 Response	66
7.38 GET DEVICE JIMI PHOTO OR VIDEO URL	67
7.38.1 Description	67
7.38.2 Request URL	67
7.38.3 HTTP request method	67
7.38.4 Request parameters	67
7.38.5 Response	68
7.39 EDIT USER INFORMATION	69
7.39.1 Description	69
7.39.2 Request URL	69
7.39.3 HTTP Request method	69
7.39.4 Request parameters	69
7.39.5 Response	71
7.40 GET PARKING/IDLING DATA OF DEVICES	71
7.40.1 Description	71
7.40.2 Request URL	71
7.40.3 HTTP Request method	71
7.40.4 Request parameters	72
7.40.5 Response	72
7.41 CREATE PLATFORM GEO-FENCE	75
7.41.1 Description	75
7.41.2 Request URL	75
7.41.3 HTTP Request method	75
7.41.4 Request parameters	75
7.41.5 Response	76
7.42 EDIT PLATFORM GEO-FENCE	77
7.42.1 Description	77
7.42.2 Request URL	77
7.42.3 HTTP Request method	77
7.42.4 Request parameters	77
7.42.5 Response	78
7.43 DELETE PLATFORM GEO-FENCE	79
7.43.1 Description	79
7.43.2 Request URL	79
7.43.3 HTTP Request method	79
7.43.4 Request parameters	79
7.43.5 Response	80
7.44 GEO-FENCE RELATED DEVICE	81
7.44.1 Description	81
7.44.2 Request URL	81
7.44.3 HTTP Request method	81
7.44.4 Request parameters	81
7.44.5 Response	82

7.45 LIST PLATFORM GEOFENCES OF AN ACCOUNT	83
7.45.1 Description	83
7.45.2 Request URL	83
7.45.3 HTTP Request method	83
7.45.4 Request parameters	83
7.45.5 Response	83
7.46 MOVE DEVICES	85
7.46.1 Description	85
7.46.2 Request URL	86
7.46.3 HTTP Request method	86
7.46.4 Request parameters	86
7.46.5 Response	86
7.47 GET RFID REPORTING INFORMATION	87
7.47.1 Description	87
7.47.2 Request URL	87
7.47.3 HTTP Request method	87
7.47.4 Request parameters	87
7.47.5 Response	88
8 APPENDIX	90
8.1 DEVICE ALARM TYPE(ALARM TYPE ID)	90

2 Overview

- Benefit of JIMI Open API, distributor or application vendor could provide tracking service to customers by calling the API and use your own GUI client, App or Website, this might improve the localization or user experience.
- Your App or web client should connect to your application server, rather than connect to JIMI API Server directly , use your application server connect to JIMI Server instead.

3 Usage

1. Contact us to apply your appKey and appSecret, you need to provide your account.
2. According to this document to implement your application server to obtain access_token.
3. Calling other interfaces with access_token to fulfil your business logic.

4 Conventions

4.1 Encoding, format & Timezone

- UTF-8 and JSON is used by default.
- Context-Type: default application/json charset=utf-8
- The API use **UTC (GMT +0)**time in default: format yyyy-MM-dd HH:mm:ss

4.2 Common response fields

Key	Type	Required	Description
code	int	Yes	result code
message	string	No	Description

Result code description

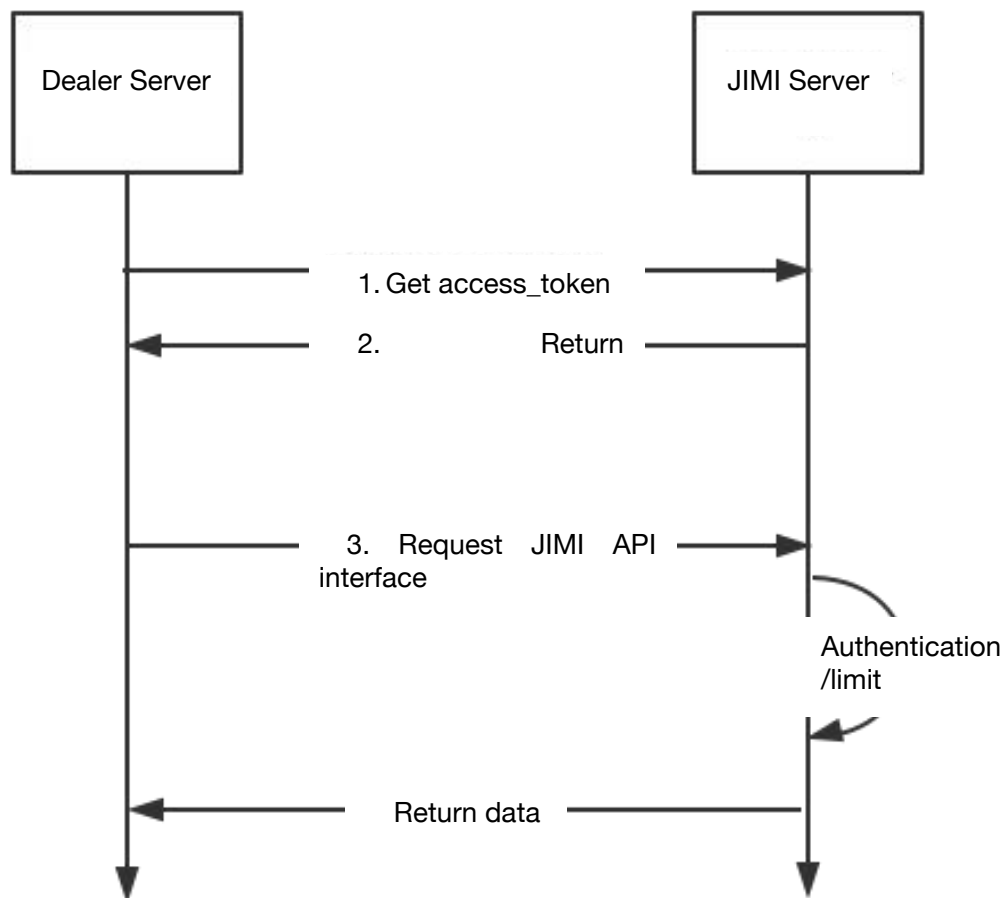
Code	Value	Description
-1	-1	The system is busy
0	0	success
1XXX	1001	Parameter error (lack of required parameters or format error). See interface description for details
	1002	Illegal user/illegal device (not their own or subordinate account or device)
	1003	Repeat operation
	1004	Illegal access, token exception! (Token failure or nonexistent)
	1005	Illegal access, IP access exceeds limit!
	1006	Illegal access, too frequently request!
	1007	Illegal access, request method error!
	1008	Illegal access, abnormal incoming!
	12001	platform account creation failed
	12002	device transfer failed
	12003	Geo-fence creation failed
	12004	Geo-fence deletion failed
	12005	Fail to send command

Error code:

Code	Value	Description	
Create account	213	Account already exist	
	214	Account does not exist	
	215	User type error. Possible reasons: 1.User type is empty; 2. User type does not exist; 3. Current login user do not have permission to create new type of user.	
Device transfer	217	Target user does not exist	
	218	User can only transfer/sale devices to sub-account	
	219	IMEI list is illegal	
	220	Number of IMEI exceeds limitation.	
Geo-fence	41001	Exceed max number of Geo-fences supported	
	41002	Fence name is already exists	
	41003	The device is not online	
	41004	Geo-fence operation failed	
Command	225	time out	
	226	Parameter error	
	227	The command is not executed correctly	
	228	The device is not online	
	229	Network error, connection error, etc.	
	238	Device interrupted	
	240	Data format error	
	243	Not supported by device	
	252	The device is busy	

5 Work Flow

5.1 API Work Flow



6 API Features

Interface type	Method	Description
Access token	jimi.oauth.token.get	Get access_token.
	jimi.oauth.token.refresh	Refresh access_token.
User API	jimi.user.child.list	List all sub-account.
	jimi.user.device.list	List all devices of current

		account.
	jimi.user.child.create	Create sub-account
	jimi.user.child.del	Remove sub-account
	jimi.user.child.move	Move sub-account to another account.
	jimi.track.device.detail	Get device detail information for specific IMEI
	jimi.user.device.location.list	Get the latest location for all devices.
Device API	jimi.device.location.get	Get the latest location data for specific IMEI.
	jimi.device.location.URL.share	Get URL for showing location on the Map.
	jimi.user.device.expiration.update	Change user expiration date for devices
	jimi.device.track.list	Obtain track data according to IMEI.
	jimi.device.track.mileage	Get mileage report for devices.
	jimi.open.device.update	Modify the vehicle information for device.
	Jimi.device.media.URL	Get URL of photo or video capture by camera.
	jimi.device.live.page.url	Get device live streaming page URL
Command API	<u>jimi.open.instruction.list</u>	Gets commands supported by the device.
	<u>jimi.open.instruction.send</u>	Send command to device.
	<u>jimi.open.instruction.result</u>	Get the command result.
	<u>jimi.open.instruction.raw.send</u>	Send raw command data to device
	<u>jimi.open.instruction.raw.receive</u>	Jimi push raw data to specified client's server URL.
	jimi.device.media.cmd.send	Send media instruction
Geo-fence API	jimi.open.device.fence.delete	Remove the Geo fence for the device.
	jimi.open.device.fence.create	Create an Geo fence for the device.
LBS-API	jimi.lbs.address.get	Wi-Fi base station location analysis.
Message	jimi.push.device.alarm	Push alarm notification.
	jimi.device.alarm.list	Get alarm list for device
Scooter API (Deprecated)	jimi.scooter.instruction.send	Send command to scooter device.
	jimi.scooter.device.detail	Get scooter status and other detail information.

7 API Description

7.1 Request URL

The unique request URL is:

Please use the URL of the corresponding node according to the node to which your OPEN API account belongs

TS: <http://open.10000track.com/route/rest>

TSP HK: <https://hk-open.tracksolidpro.com/route/rest>

TSP EU: <https://eu-open.tracksolidpro.com/route/rest>

TSP US: <https://us-open.tracksolidpro.com/route/rest>

Different interfaces are identified by request parameter method.

7.2 Security

Client should get access_token first before calling the interface, which is generated by JIMI Server by calling jimi.oauth.token.get interface(method=jimi.oauth.token.get) with provided appKey and appSecret.

appKey and access_token are required to sign request parameters when calling API. JIMI server will validate the the request parameters by checking the sign value.

7.3 Common Parameters

The parameters of each request should include common parameters and interface private parameters. For example, if you call the “jimi.oauth.token.get” interface, you need to provide :

7(common parameters) + **3**(private parameters) = **10** (parameters, key/value)

Following are the common parameters:

Name	Type	Required	Description	Remark	Default
method	string	Yes	API interface name		
timestamp	string	Yes	Timestamp, format: yyyy-MM-dd HH:mm:ss. Plus or minus 10 minutes is allowed. e.g:2012-03-25 20:00:00	GMT(UTC) time.	
app_key	string	Yes	appKey	from JIMI	
sign	string	Yes	A signature base on parameters, appKey, appSecret.		

sign_method	string	Yes	Optional, signature method. Available value: md5	md5	md5
v	string	Yes	Optional, specify the API version. System default 1.0, support version: 0.9, 1.0	0.9: no signature checking 1.0: check signature	
format	string	Yes	Optional, specify response format.		json

The parameter V uses a difference of 0.9 and 1.0:

- Using 0.9 will not perform Sign signature verification
- Using 1.0 will verify the Sign signature

Function description of Sign signature verification:

The data receiving end gets the transmission text, but needs to confirm whether the text is the content sent by the sender, and whether it has been tampered with in the middle. Therefore, the receiver uses its own public key to decrypt the signature and obtains the digest of the text, then uses the same method as the sender to calculate the digest value of the text, and compares it with the decrypted digest, and finds that the two are exactly the same. It means that the text has not been tampered with.

7.4 Signature

To protect API calling from hacked, any API calling needs to be with a signature. JIMI server will check signature based on request parameters. Illegal signature request will be rejected. Signature algorithms supported is: md5 (sign_method is a common parameter mentioned above). Following is the algorithm of signature:

1. Sort all request parameters with parameter key in alphabetical order (including common parameters and method specific parameters, but **NOT** include **sign** and byte type parameter.

For example:

```
foo=1, bar=2, foo_bar=3, foobar=4
Result: bar=2, foo=1, foo_bar=3, foobar=4
```

2. Remove all equal sign and comma:

```
bar2foo1foo_bar3foobar4
```

3. Then concatenate appSecret to the before and end of the result string and get the md5 value. E.g:

```
md5(appSecret+bar2foo1foo_bar3foobar4+appSecret), the real string should like:
md5(h9Iri085eachcz4sn7gwnkh6j0jt0yz4bar2foo1foo_bar3foobar4h9Iri085eachcz4sn7gwnkh6j0jt0yz4)
```

Note that the string should be in UTF-8 encoding.

Note that the sign should be upper case string.

4. If the parameter value is a byte stream, it should be converted to hexadecimal. For example:

```
hex("helloworld".getBytes("utf-8")) = "68656C6C6F776F726C64"
```

MD5 is the 128-bit summary algorithm and is in hexadecimal. a hexadecimal character can represent four bits, so the signature string length is 32 hexadecimal characters.

JAVA example:

algorithm

```
public static String signTopRequest(Map<String, String> params, String seccode, String signMethod) throws IOException {
    // 1: sort parameter key
    String[] keys = params.keySet().toArray(new String[0]);
    Arrays.sort(keys);

    // 2:: Put all parameter names and parameter values together
    StringBuilder query = new StringBuilder();
    if (Constants.SIGN_METHOD_MD5.equals(signMethod)) {
        query.append(seccode);
    }
    for (String key : keys) {
        String value = params.get(key);
        if (StringUtils.isNotEmpty(key, value)) {
            query.append(key).append(value);
        }
    }

    // 3: use MD5/HMAC to encrypt
    byte[] bytes;
    if (Constants.SIGN_METHOD_HMAC.equals(signMethod)) {
        bytes = encryptHMAC(query.toString(), seccode);
    } else {
        query.append(seccode);
        bytes = encryptMD5(query.toString());
    }

    // 4: convert binary to uppercase hexadecimal
    return byte2hex(bytes);
}

public static byte[] encryptHMAC(String data, String seccode) throws IOException {
    byte[] bytes = null;
    try {
        seccodeKey seccodeKey = new seccodeKeySpec(seccode.getBytes(Constants.CHARSET_UTF8), "HmacMD5");
        Mac mac = Mac.getInstance(seccodeKey.getAlgorithm());
        mac.init(seccodeKey);
        bytes = mac.doFinal(data.getBytes(Constants.CHARSET_UTF8));
    } catch (GeneralSecurityException gse) {
        throw new IOException(gse.toString());
    }
    return bytes;
}

public static byte[] encryptMD5(String data) throws IOException {
    return encryptMD5(data.getBytes(Constants.CHARSET_UTF8));
}

public static String byte2hex(byte[] bytes) {
    StringBuilder sign = new StringBuilder();
```

```

for (int i = 0; i < bytes.length; i++) {
    String hex = Integer.toHexString(bytes[i] & 0xFF);
    if (hex.length() == 1) {
        sign.append("0");
    }
    sign.append(hex.toUpperCase());
}
return sign.toString();
}

```

7.5 Get access token

7.5.1 Description

Client(distributor's server) should stored the access_token locally, do NOT get access_token per request, instead, use the local access_token before it become invalid. JIMI server will not allow to access if the request frequency is too high from client.

The access token can be used for about 2 hours(depend on the value for expires_in parameter), do NOT try to get token for every request.

7.5.2 Request URL

See the [unique request URL](#).
Method = jimi.oauth.token.get

7.5.3 HTTP request method

POST

7.5.4 Request parameter

- (1) [Common parameters](#)
- (2) Private parameters as follow:

Name	Type	Required	Description	Remark	Default
user_id	String	Yes	User ID	User's account	
user_pwd_md5	String	Yes	user's password (md5)		Lowercase md5 value.
expires_in	number	Yes	access token expired seconds.	60-7200	

7.5.5Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	String	Result

Key	Type	Description
accessToken	string	access token, required by any other following interfaces.
expiresIn	string	access token expired seconds.
account	String	user's account.
appKey	string	appKey from JIMI.
refreshToken	String	Refresh token, which is used for updating accessToken
time	String	Token generated time.

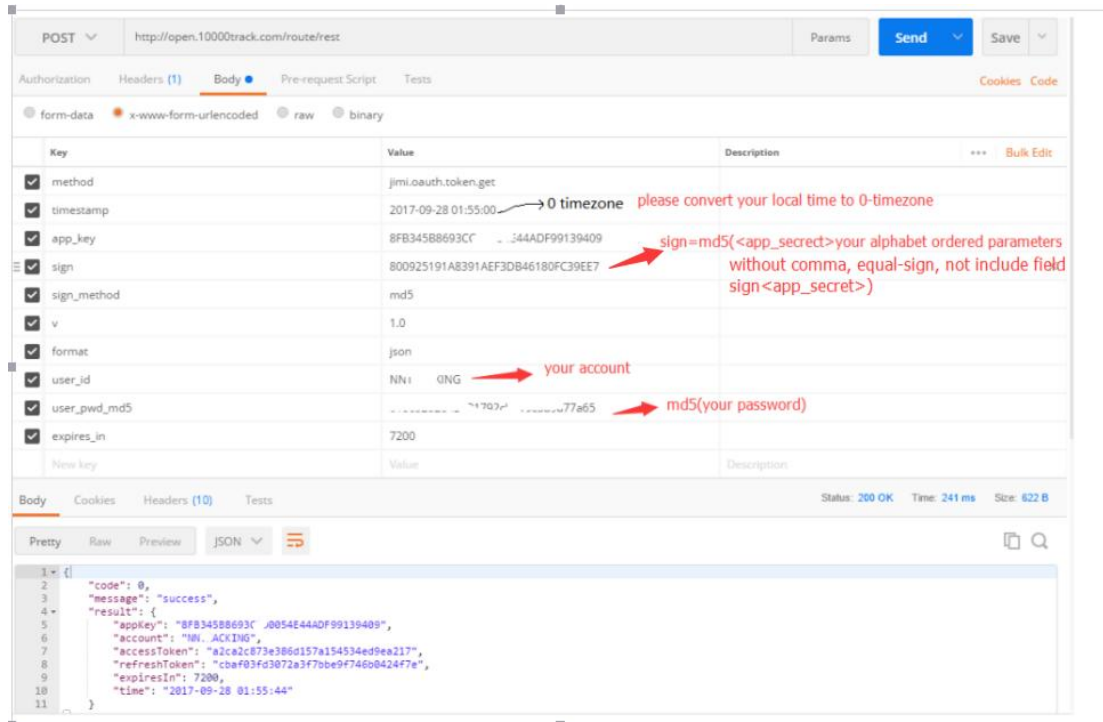
Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": {
    "appKey": "8FB345B8693CCD003CC2DAB61EC8791D",
    "account": "jimitest",
    "accessToken": "7da3330ec28e3996b6ef4a7e3390ba71",
    "expiresIn": 60
    "refreshToken": "7da3330ec28e3996b6ef4a7e3390ba71",
    "time": "2017-06-15 10:00:00"
  }
}
```

Return error example:

```
{"code":xxx,"message":"Incorrect user name or password"}
```

Postman demo:



user_id = your tracksolid account.

user_pwd_md5 = md5(your tracksolid account password).

Sign = md5(<app_secret>your alphabet ordered parameters keyvalue, without equal-sign, comma and not include sign field<app_secret>).

Note that sign is a 32-length upper case string.

For example:

<app_secret>app_key9FB345B8693CCD0054E44ADF99139409expires_in7200formatjson
methodjimi.oauth.token.getsign_methodmd5timestamp2017-09-28
01:55:00user_id<account>user_pwd_md5<password_md5>v1.0<app_secret>

7.6 Refresh access token

7.6.1 Description

This interface is used to update token manually when access token is about to be invalid.

7.6.2 Request URL

See the unique request URL.

Method = jimi.oauth.token.refresh

7.6.3 HTTP Request method

POST

7.6.4Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Description	Remark	Default
access_token	String	YES	Access token		
refresh_token	String	YES	Authorized refresh access token		
expires_in	number	YES	access token expired seconds	60-7200	

7.6.5Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	result

Key	Type	Description
accessToken	string	Access token, required for subsequently interface access.
ExpiresIn	string	Access token expired seconds.
account	string	Requested account
appKey	string	From JIMI
refreshToken	string	Refresh token for updating access token
time	string	Token generated time

Example for correct Response:

```
{
  "code": 0,
  "message": "success",
  "result": {
    "appKey": "8FB345B8693CCD003CC2DAB61EC8791D",
    "account": "jimitest",
    "accessToken": "7da3330ec28e3996b6ef4a7e3390ba71",
    "expiresIn": 60,
    "refreshToken": "7da3330ec28e3996b6ef4a7e3390ba71",
```

```
    "time": "2017-06-15 10:00:00"
  }
}
```

Return error example:

```
{"code":xxx,"message":"Illegal request, token is invalid"}
```

7.7 List all sub-account

7.7.1Description

List all sub-account of a specified account.

7.7.2Request URL

See the unique request URL.

Method = **jimi.user.child.list**

7.7.3HTTP request method

POST

7.7.4Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	Access token for security access JIMI Server.
target	string	Yes	-	The specified account for inquired.

7.7.5Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description

message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Result:

Key	Type	Description
account	string	log in account
name	string	name
type	Int	Account Type 3: App user 8: Distributor 9: ordinary users 10: ordinary distributor 11: sales
displayFlag	Int	Available or not (1:Available,0:not available)
address	string	location
birth	string	birthday
companyName	string	Company Name
email	string	mailbox
phone	string	contact number
language	string	Language (zh,en)
sex	int	Gender 0 male, 1 female
enabledFlag	Int	Flag:1 Available, 0not available
remark	string	Remark

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "account": "123123",
      "name": "test",
      "type": 8,
      "displayFlag": 1,
      "address": null,
      "birth": "2017-04-22 00:00:00",
      "companyName": "",
      "email": "",
      "phone": "",
      "language": "zh",
      "sex": 0,
      "enabledFlag": 1,
      "remark": null
    }
  ]
}
```

Wrong return example:

```
{"code":xxx,"message":"The account does not exist"}
```

7.8 Create sub-account

7.8.1 Description

Create a sub-account of a specified account.

7.8.2 Request URL

See the unique request URL.

Method = **jimi.user.child.create**

7.8.3 HTTP request method

POST

7.8.4 Request parameters

(1) [Common parameters](#)

(2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	Access token for security access JIMI Server.
super_account	string	No	-	The specified parent account. If not provided, use API account instead.
account_id	string	Yes		Account id, length of 3~30 characters. Support special characters like “_@.” as well as a-Z, 0-9.
nick_name	string	Yes		Nick name or customer name
account_type	int	Yes		1-Distributor 2-End User 3-Sales
password	string	Yes		Password with md5.
telephone	string	No		
Email	string	Yes		User could retrieve password if forgot it.
contact_person	string	No		
company_name	string	No		

permissions	string	Yes	Web Login App Login Send Command Set Working Mode Edit by Web Edit by App 6 digital represents enable/disable perssion.
-------------	--------	-----	--

7.8.5Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Correct return example:

```
{
  "code": 0,
  "message": "Vehicle information modification successful",
  "result": null
}
```

Wrong return example:

```
{"code":xxx,"message":"The account does not exist"}
```

7.9 Remove sub-account

7.9.1Description

Remove a sub-account of a specified account.

7.9.2Request URL

See the unique request URL.

Method = **jimi.user.child.del**

7.9.3HTTP request method

POST

7.9.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	Access token for security access JIMI Server.
super_account	string	No	-	The specified parent account. If not provided, use API account instead.
account_id	string	Yes		Account id, length of 3~30 characters. Support special characters like “_@.” as well as a-Z, 0-9.

7.9.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Correct return example:

```
{
  "code": 0,
  "message": "Vehicle information modification successful",
  "result": null
}
```

Wrong return example:

```
{"code":xxx,"message":"no permissions"}
```

7.10 Move account

7.10.1 Description

Move account from one sub-account to another sub-account.

7.10.2 Request URL

See the [unique request URL](#).

Method = `jimi.user.child.move`

7.10.3 HTTP request method

POST

7.10.4 Request parameters

(1) [Common parameters](#)

(2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	Access token for security access JIMI Server.
account	string	Yes	-	The account will be moved.
target_account	string	Yes		The target account to move in.

7.10.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Correct return example:

```
{
  "code": 0,
  "message": "Vehicle information modification successful",
  "result": null
}
```

Wrong return example:

```
{"code":xxx,"message":"no permissions"}
```

7.11 List all devices of sub-account

7.11.1 Description

Query all devices of a specified account.

7.11.2 Request URL

See the unique request URL.

Method = `jimi.user.device.list`

7.11.3 HTTP request method

POST

7.11.4 Request parameters

(1) [Common parameters](#)

(2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token for security access JIMI Server.
target	string	Yes	-	The specified account for inquired.

7.11.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Result:

Key	Type	Description
imei	string	Device IMEI
deviceName	string	Device name
mcType	string	Device model
mcTypeUseScope	string	Automobile, electromobile, personal, pet, plane, others

sim	string	Sim card number
expiration	string	Platform expiration date
activationTime	string	Activation time
reMark	string	Remarks
vehicleName	string	Vehicle name
vehicleIcon	string	Vehicle icon
vehicleNumber	string	License plate number
vehicleModels	string	Brand
carFrame	string	VIN
driverName	string	Driver name
driverPhone	string	Driver phone number
enabledFlag	int	Available or not (1:Available,0:not available)
engineNumber	string	Engine number
machineName	string	If the user fills in this attribute, the device model will display the alias on the platform and for the sub-accounts users

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "imei": "868120145233604",
      "deviceName": "868120145233604",
      "mcType": "GT300L",
      "mcTypeUseScope": "personal",
      "sim": "415451",
      "expiration": "2037-04-01 23:59:59",
      "activationTime": "2017-04-01 11:02:20",
      "reMark": "test",
      "vehicleName": null,
      "vehicleIcon": "bus",
      "vehicleNumber": "粤 B3604",
      "vehicleModels": null,
      "carFrame": "2235",
      "driverName": "driver",
      "driverPhone": "13825036579",
      "enabledFlag": 1,
      "engineNumber": "8565674"
    }
  ]
}
```

Return error example:

```
{"code":xxx,"message":"Account queried doesn't exist"}
```

7.12 Get device detail information

7.12.1 Description

Get device detail information for specific IMEI.

7.12.2 Request URL

See the unique request URL.

Method = `jimi.track.device.detail`

7.12.3 HTTP request method

POST

7.12.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token for security access JIMI Server.
imei	string	Yes	-	The specified IMEI for inquired.

7.12.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Result:

Key	Type	Description
imei	string	Device IMEI
deviceName	string	Device name
mcType	string	Device model

mcTypeUseScope	string	Automobile, electromobile, personal, pet, plane, others
sim	string	Sim card number
expiration	string	Platform expiration date
user_expiration	string	User expiration date, format as: account1,2019-01-01 account2,2019-02-02
activationTime	string	Activation time
reMark	string	Remarks
vehicleName	string	Vehicle name
vehicleIcon	string	Vehicle icon
vehicleNumber	string	License plate number
vehicleModels	string	Vehicle Model
carFrame	string	VIN
driverName	string	Driver name
driverPhone	string	Driver phone number
enabledFlag	int	Available or not (1:Available,0:not available)
engineNumber	string	Engine number
iccid	string	
importTime	string	
imsi	string	
licensePlatNo	string	
VIN	string	
vehicleBrand	string	
fuel_100km	string	Fuel consumption for per 100km.
status	string	0-disable 1-enable
machineName	string	If the user fills in this attribute, the device model will display the alias on the platform and for the sub-accounts users
currentMileage	string	The current mileage of the device (km)

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": {
    "imei": "868120145233604",
    "deviceName": "868120145233604",
    "mcType": "GT300L",
    "mcTypeUseScope": "personal",
    "sim": "415451",
```

```
{
  "expiration": "2037-04-01 23:59:59",
  "activationTime": "2017-04-01 11:02:20",
  "reMark": "test",
  "vehicleName": null,
  "vehicleIcon": "bus",
  "vehicleNumber": "粤 B3604",
  "vehicleModels": null,
  "carFrame": "2235",
  "driverName": "driver",
  "driverPhone": "13825036579",
  "enabledFlag": 1,
  "engineNumber": "8565674",
  "iccid": "xxxxxxx",
  "imsi": "xxxx",
  "importTime": "2017-04-01 11:02:20",
  "licensePlatNo": "8565674",
  "VIN": "xxxxxxx",
  "vehicleBrand": "xxx",
  "fuel_100km": "9",
  "status": "8565674",
  "currentMileage": "102.5"
}
```

Return error example:

```
{"code":xxx,"message":"Account queried doesn't exist"}
```

7.13 Get location of devices by account

7.13.1 Description

Get the latest location for all devices under an account.

7.13.2 Request URL

See the unique request URL.

Method = **jimi.user.device.location.list**

7.13.3 HTTP request method

POST

7.13.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token for security access JIMI Server.
target	string	Yes	-	Specify the account for inquired.
map_type	string	No	-	map_type=GOOGLE, calibrated by google calibration. map_type=null, return origin latitude and longitude

7.13.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message The returned data
result	string	The returned data

Result data:

Key	Type	Description
imei	string	Device IMEI
deviceName	string	Device name
icon	string	Vehicle icon
status	string	Device status 0 - offline; 1 - online
Lat	double	Longitude (if the device is expired, the value is 0)
Lng	double	Latitude (if the device is expired, the value is 0)
expireFlag	string	Expired or not: 1- expired; 0 - not expired
activationFlag	string	Activate or not :1 - Activate; 0 - Not active
posType	string	GPS, LBS, WIFI,BEACON
locDesc	string	Location information while the device is positioned by Bluetooth
gpsTime	string	GPS positioning time
hbTime	string	Heartbeat time
Speed	string	Speed (unit: km / h)
accStatus	string	ACC 0-OFF; 1-ON
electQuantity	string	Device battery (0-100), some models are not supported
powerValue	string	External voltage(0-100), some models are not supported

temperature	string	temperature (unit:°C)
trackerOil	string	Oil quantity of the car (Original voltage value)

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "imei": "868120145233604",
      "deviceName": "868120145233604",
      "icon": "bus",
      "status": "0",
      "posType": "GPS",
      "lat": 22.577282,
      "lng": 113.916604,
      "hbTime": "2017-04-26 09:14:50",
      "accStatus": "0",
      "speed": "0",
      "gpsTime": "2017-04-26 09:17:46",
      "activationFlag": "1",
      "expireFlag": "1",
      "electQuantity": "60",
      "locDesc": null,
      "powerValue": null,
      "temperature": "86.5",
      "trackerOil": null
    }
  ]
}
```

Wrong return example:

```
{"code":xxx,"message":"The account does not exist"}
```

7.14 Get the location of device(s)

7.14.1 Description

Get the latest location for one or multiple devices.

7.14.2 Request URL

See the unique request URL.

Method = **jimi.device.location.get**

7.14.3 HTTP request method

POST

7.14.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		access token: used to security access JIMI server.
imeis	string	Yes	–	Device IMEI. Separate imei by comma; POST is recommended if too many devices (maximum 100 IMEI)
map_type	string	No	–	map_type=GOOGLE, calibrated by google calibration. map_type=null, return origin latitude and longitude

7.14.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Result list:

Key	Type	Description
IMEI	string	Device IMEI
deviceName	string	Device name
Icon	string	Vehicle icon
status	string	Device status 0, offline; 1, online
Lat	double	Longitude (if the device expires, the value is 0)
Lng	double	Latitude (if the device expires, the value is 0)
expireFlag	string	1- expired; 0 - not expired
activationFlag	string	1 - Activate; 0 - Not active
posType	string	GPS, LBS, WIFI, BEACON

locDesc	string	Location information
gpsTime	string	GPS positioning time
hbTime	string	Heartbeat time
speed	string	Speed (unit: km / h)
accStatus	string	ACC 0- off ;1- on
batteryPowerVal	string	battery (0-100) , Some device models are not supported
powerValue	string	External voltage (0-100), Some device models are not supported
distance	string	distance from device.
temperature	string	temperature (unit:°C)
trackerOil	string	Vehicle remaining fuel
currentMileage	string	The current mileage of the device (km)
gpsNum	string	0 - No signal 1 - Extremely week 2 - Week 3 - Strong 4 - Extremely strong

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "imei": "868120145233604",
      "deviceName": "868120145233604",
      "icon": "bus",
      "status": "0",
      "posType": "GPS",
      "lat": 22.577282,
      "lng": 113.916604,
      "hbTime": "2017-04-26 09:14:50",
      "accStatus": "0",
      "speed": "0",
      "gpsNum": "11",
      "gpsTime": "2017-04-26 09:17:46",
      "activationFlag": "1",
      "expireFlag": "1",
      "electQuantity": "60",
      "locDesc": null,
      "powerValue": null,
      "temperature": "86.5",
      "trackerOil": null,
      "currentMileage": "86.5",
    }
  ]
}
```

Wrong return example:

```
{"code":xxx,"message":"Illegal device"}
```

7.15 Get sharing location URL

7.15.1 Description

Get the URL of device location showing on the Map.

7.15.2 Request URL

See the [unique request URL](#).

Method = `jimi.device.location.URL.share`

7.15.3 HTTP request method

POST

7.15.4 Request parameters

(1) [Common parameters](#)

(2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		access token: used to security access JIMI server.
imei	string	Yes	—	Device IMEI

7.15.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data contains URL information.

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": {
    "URL":
"data.16180track.com/api/share?ver=2&method=trackDevice_abr&deviceinfo=7ae7c62385f2067f164002db315854a969a40e3888021cb01dc8f2183ca08dbbd8581f6bb86df4c2e3e1b887cb67c21039b4c0ced18fdf8dd08e0460c5edd13ad87e16dc
a9702ce6",
  }
}
```

Wrong return example:

```
{"code":xxx,"message":"Illegal device"}
```

7.16 Update user expiration date

7.16.1 Description

Update user expiration date of devices.

7.16.2 Request URL

See the unique request URL.

Method = jimi.user.device.expiration.update

7.16.3 HTTP request method

POST

7.16.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		access token: used to security access JIMI server.
imei_list	string	Yes	-	One or multiple devices IMEI.
new_expiration	string	Yes		New user expiration date for devices.

7.16.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data contains URL information.

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "imei": "868120145233604",
      "update_result": "0",
      "update_msg": "update success"
    },
    {
      "imei": "868120145233605",
      "update_result": "1",
      "update_msg": "update failed, reason:xxxxxx"
    }
  ]
}
```

Wrong return example:

```
{"code":xxx,"message":"Illegal device"}
```

7.17 Get the mileage data of devices

7.17.1 Description

Get device(s) trips data of specified time range.

7.17.2 Request URL

See the unique request URL.

Method = **jimi.device.track.mileage**

7.17.3 HTTP request method

POST

7.17.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	Access token: used to identify legal client.
imeis	string	Yes	-	Device imeis, separate by comma.
begin_time	number	Yes	-	Start time Format: yyyy-MM-dd HH:mm:ss
end_time	number	Yes	-	End time Format: yyyy-MM-dd HH:mm:ss end_time should be earlier than current time
start_row	number	No	-	Row number of result set.
page_size	number	No		Records in one page.

7.17.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data
data	string	Summary information: IMEI : IMEI of device totalMileage: The sum of the total mileage of all trips made by the device within the specified time period

result list:

Key	Type	Description
imei	string	IMEI of device
startTime	string	Start time
endTime	string	End time
startLat	string	Latitude of start position.

startLng	string	Longitude of start position.
endLat	string	Latitude of end position.
endLng	string	Longitude of end position.
runTimeSecond	int	Second of elapsed between start and end position.
distance	double	Distance(meter) between start and end position.
avgSpeed	double	Average speed

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "imei": "3505831983422342",
      "startTime": "2017-04-26 00:00:58",
      "endTime": "2017-04-26 00:03:58",
      "startLat": 22.577144898887813,
      "startLng": 113.91674845964586,
      "endLat": 22.677144898887813,
      "endLng": 113.92674845964586,

      "elapsed": 2130,
      "distance": 25000,
      "avgSpeed": 90
    }
    {
      "imei": "3505831983422342",
      "startTime": "2017-04-26 00:00:58",
      "endTime": "2017-04-26 00:03:58",
      "startLat": 22.577144898887813,
      "startLng": 113.91674845964586,
      "endLat": 22.677144898887813,
      "endLng": 113.92674845964586,

      "elapsed": 2130,
      "distance": 25000,
      "avgSpeed": 90
    }
  ]
  "data": [
    {
      "imei": "3505831983422342",
      "totalMileage": 60000,
    }
    {
      "imei": "3505831983422342",
      "totalMileage": 60000,
    }
  ]
}
```

7.18 Get the track data of device

7.18.1 Description

Get device track data of not more than 2 days, within 3 months.

7.18.2 Request URL

See the unique request URL.

Method = `jimi.device.track.list`

7.18.3 HTTP request method

POST

7.18.4 Request parameters

(1) [Common parameters](#)

(2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	Access token: used to identify legal client.
imei	string	Yes	-	Device imei(only 1 each time)
begin_time	number	Yes	-	Start time Format: yyyy-MM-dd HH:mm:ss
end_time	number	Yes	-	End time Format: yyyy-MM-dd HH:mm:ss end_time should be earlier than current time
map_type	string	No	-	map_type=GOOGLE, calibrated by google calibration. map_type=null, return origin latitude and longitude

7.18.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message

result	string	The returned data
--------	--------	-------------------

result list:

Key	Type	Description
lng	double	longitude
lat	double	latitude
gpsTime	string	GPS positioning time. Format yyyy-MM-dd HH: mm: ss
direction	string	Direction, polar coordinates started from due north
gpsSpeed	string	GPS speed
posType	string	1-GPS, 2-LBS, 3-WIFI
satellite	string	GPS antenna signal strength
ignition	string	Ignition status; ON-ACC ON, OFF-ACC OFF

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "lat": 22.577144898887813,
      "lng": 113.91674845964586,
      "gpsTime": "2017-04-26 00:00:58",
      "direction": 0,
      "gpsSpeed": -1,
      "posType": 3
    },
    {
      "lat": 22.57708,
      "lng": 113.916631,
      "gpsTime": "2017-04-26 00:01:30",
      "direction": 184,
      "gpsSpeed": 0,
      "posType": 1
    }
  ]
}
```

Return error example:

```
{"code":xxx,"message":"IMEI does not exist{353419031939627}"}
```

```
{"code":xxx,"message":"The device has expired{353419031939627}"}
```

7.19 Update vehicle information by IMEI

7.19.1 Description

Update vehicle information by IMEI

7.19.2 Request URL

See the [unique request URL](#).

Method = `jimi.open.device.update`

7.19.3 HTTP request method

POST

7.19.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.
imei	string	Yes	-	Device IMEI
device_name	string	No	-	Device name
vehicle_name	string	No	-	Vehicle name
vehicle_icon	string	No	-	Vehicle icon
vehicle_number	string	No	-	Vehicle plate number
vehicle_models	string	No	-	Vehicle brand
driver_name	string	No	-	Driver name
driver_phone	string	No	-	Driver phone
device_status	string	No		0 - disable/1-enable. Enable/Disable devices.

7.19.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Correct return example:

```
{  
  "code": 0,  
  "message": "Vehicle information modification successful",  
}
```

```
"result": null
}
```

Wrong return example:

```
{"code":xxx,"message":"imei doesn't exists"}
```

Vehicle Icon

Icon key	Description
automobile	Car
bus	Bus
per	People
mtc	Motorcycle
truck	
taxi	
plane	
schoolBus	
excavator	
ship	
tricycle	
policeMtc	Police Motorcycle
tractor	
policeCar	
cow	
other	

7.20 Get Device Photo or Video URL

7.20.1 Description

Get device photo or video URL which capture by camera.

**REMARK: ONLY GET THE VIDEO OR PHOTO WHICH CREATED BY REMOTE COMMAND.
TO GET ALL TYPE PHOTO OR VIDEO, [PLEASE USE 7.38 API](#)**

7.20.2 Request URL

See the unique request URL.

Method = **jimi.device.media.URL**

7.20.3 HTTP request method

POST

7.20.4 Request parameters

(1) [Common parameters](#)

(2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.
imei	string	Yes	-	Device IMEI
camera	string	Yes		1-front 2- inward 3 both
media_type	string	Yes		1 -photo 2-video 3-both
start_time	date	No		Start time of photo or video created.
end_time	date	No		End time of photo or video created.
token	string	No		Token used to validate whether can access photo or video or not.
page_no	int	No		Zero indexed, 0 by default.
page_size	int	No		10 rows by default.

7.20.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data,could be multiple rows.

result list:

Key	Type	Description
thumb_URL	string	URL of video or photo thumbnail.
file_URL	string	URL of video or photo.
mime_type	string	Mime type of video or photo
create_time	date	Create time of video or photo.
media_type	string	1-photo 2-video
camera	string	0-front camera 1-inward camera
file_size	int	File size of photo or video.

Correct return example:

```
{
  "code": 0,
  "message": "Operation successful",
  "result":
  [
    {
      "thumb_URL": "Q9GLAFFqCrYF6YfQAcON4w4Ezs=/lhWse7ie3wtFrjuQZ22dLak5CSaR",
```

```

    "file_URL": "357730090345670_3949477_2019_04_29_12_32_38_01",
    "mime_type": "video/mp4",
    "create_time": 2019-04-29 10:32:43,
    "media_type": 2,
    "camera": 1,
    "file_size": 9949087
  },
  {
    "thumb_URL": "Q9GLAFFqfCrYF6YfQAcON4w4Ezs=/FhCrZEly3518sR_yIOlqDg7w3Ju-",
    "file_URL": "351609080120911_3949476_2019_04_29_18_32_12",
    "mime_type": "video/3gpp",
    "create_time": 2019-04-29 10:32:42,
    "media_type": 2,
    "camera": 1,
    "file_size": 2411318
  }
]
}
Wrong return example:

```

```

{"code":xxx,"message":"imei doesn't exists"}

```

7.21 Get Device Live Steaming Page URL

7.21.1 Description

Get device live streaming page URL& last position information.

7.21.2 Request URL

See the unique request URL.

Method = `jimi.device.live.page.url`

7.21.3 HTTP request method

POST

7.21.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.

imei	string	Yes	-	Device IMEI
type	string	No	Default type=1	Type=1 real-time video Type=2 Historical video
voice	string	No	Default 1	0 is disable; 1 is enable

7.21.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	String	The returned data

result list:

Key	Type	Description
lng	double	longitude
lat	double	latitude
gpsTime	string	GPS positioning time. Format yyyy-MM-dd HH: mm: ss
direction	string	Direction, polar coordinates started from due north
gpsSpeed	string	GPS speed
posType	string	1-GPS, 2-LBS, 3-WIFI
satellite	string	GPS antenna signal strength
VIN	string	VIN
plateNo	string	License Plate Number
UrlCamera	string	Live streaming page URL

Correct return example:

```
{
  "code": 0,
  "message": "Vehicle information modification successful",
  "result": {
    "lat": 22.577144898887813,
    "lng": 113.91674845964586,
    "gpsTime": "2017-04-26 00:00:58",
    "direction": 0,
    "gpsSpeed": -1,
    "posType": 3,
    "satellite": 11,
    "VIN": "V12345",
    "plateNo": "ABC-12345",
    "UrlCamera": "https://www.domain.com/device/video/35408343202342345",
  }
}
```

}

Wrong return example:

```
{"code":xxx,"message":"imei doesn't exists"}
```

7.22 Wi-Fi, Base Station locating analysis

7.22.1 Description

Allocate by total devices under the account (10 times/day/device. All sub-accounts included)

7.22.2 Request URL

See the [unique request URL](#).

Method = **jimi.lbs.address.get**

7.22.3 HTTP request method

POST

7.22.4 Request parameters

(1) [Common parameters](#)

(2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		access token: used to identify legal client.
imei	number	Yes	-	Device Imei
lbs	number	No	-	(wifi/LBS: at least one) LBS inforamtion group (mcc,mnc,lac,cell,rssi), max 7. Each group has five, which should not be null and sorted in order. MCC, China: 460 MNC LAC information, 2312 23222 CELL code: 23222 RSSI Semaphore-70
wifi	string	No	-	(wifi/LBS: at least one) mac1,rssi1 mac2,rssi2 Mac address, no colon in between.

				Rssi signal strength
--	--	--	--	----------------------

7.22.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Result list:

Key	Type	Description
lng	string	longitude
lat	string	latitude
accuracy	string	Accuracy, the greater the value the better

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": {
    "lat": 40.65615416521587,
    "lng": 109.89894039833524,
    "accuracy": 0
  }
}
```

Wrong return example:

```
{"code":xxx,"message":"illegal device"}
```

7.23 Create Geo-fence for IMEI

7.23.1 Description

Create Geo-fence for IMEI

7.23.2 Request URL

See the unique request URL.

Method = **jimi.open.device.fence.create**

7.23.3 HTTP request method

POST

7.23.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		accesstoken: used for identifying legal third party
imei	string	Yes	-	Device Imei
fence_name	string	Yes	-	Geo-fence name
alarm_type	string	Yes	-	Alarm type (in / out / in, out)
report_mode	string	Yes	-	Alarm reporting mode, 0: GPRS,1: SMS+GPRS
alarm_switch	string	Yes	-	Fence alarm switch(ON/OFF)
lng	string	Yes	-	Longitude
lat	string	Yes	-	latitude
radius	string	Yes	-	Fence radius(1 ~ 9999; unit: 100 meters)
zoom_level	string	Yes	-	Zoom level (3-19)
map_type	string	Yes	-	Map (GOOGLE)

7.23.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data. Fence serial number returned if succeed.

Correct return example:

```
{  
  "code": 0,  
  "message": "Successfully create geo-fence.",  
  "result": "5"  
}
```

Wrong return example:

```
{  
  "code": 41003,  
  "message": "Fence is not exist."  
}
```

```
"message": "Device is not online, geo-fence creation failed ",
"result": null
}
```

7.24 Delete Geo-fence for device

7.24.1 Description

Delete Geo-fence for device.

7.24.2 Request URL

See the [unique request URL](#).

Method = `jimi.open.device.fence.delete`

7.24.3 HTTP request method

POST

7.24.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		accesstoken: used for identifying legal third party
imei	string	Yes	-	Device imei
instruct_no	string	Yes	-	Geo-fence command serial number

7.24.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Correct return example:

```
{
  "code": 0,
  "message": "delete the geo-fence successfully",
  "result": null
}
```

Return error example:

```
{
  "code": 41003,
  "message": "The device is not online and geo-fence can't be deleted",
  "result": null
}
```

7.25 Get command list supported by device

7.25.1 Description

Get command list supported by device

7.25.2 Request URL URL

See the [unique request URL](#).

Method = `jimi.open.instruction.list`

7.25.3 HTTP request method

POST

7.25.4 Request parameters

(1) [Common parameters](#)

(2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		accesstoken: used for identifying legal third party
imei	string	Yes	-	Device imei

7.25.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Result list:

Key	Type	Description
id	string	Command code
orderName	string	Command name
orderContent	string	Command template
orderExplain	string	Command explanation
orderMsg	string	prompt
isOffLine	string	if support offline command 0-no; 1-yes

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "id": 81,
      "orderName": "SOS setting",
      "orderContent": "SOS,A,{0},{1},{2}#",
      "orderExplain": "SOS is used for receive alerts and SOS alerts. SOS number should have 3-20 numbers.",
      "orderMsg": "",
      "isOffLine": "1"
    }
    ...
  ]
}
```

Return error example:

```
{"code":xxx,"message":"Illegal device"}
```

7.26 Send command to device

7.26.1 Description

Send command to device.

7.26.2 Request URL

See the [unique request URL](#).

Method = `jimi.open.instruction.send`

7.26.3 HTTP request method

POST

7.26.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		accesstoken: used for identifying legal third party
imei	string	Yes	-	Device imei
inst_param_json	string	Yes	-	Command message json character string

inst_param_json description

Parameter	Type	Required	Remark	Description
inst_id	string	Yes		Command code
inst_template	string	Yes	-	Command template
params	Array<string>	Yes	-	Command params string Array
is_cover	Boolean	NO	false	Whether cover the existed offline command or not true-cover false-not cover

Example:

```
{"inst_id": "113", "inst_template": "RELAY,1#", "params": [], "is_cover": "true"}  
{"inst_id": "114", "inst_template": "RELAY,0#", "params": [], "is_cover": "true"}
```

User-defined command:

```
{"inst_id": "96", "inst_template": "{0}", "params": ["STATUS#"], "is_cover": "true"}
```

7.26.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Correct return example:

```
{
  "code": 0,
  "message": "command is successfully sent.",
  "result": null
}
```

Return error example:

```
{
  "code": 12005,
  "message": "Fail to send command. Result code: 226",
  "result": null
}
```

7.27 Get results of command execution

7.27.1 Description

Get results of sending command.

7.27.2 Request URL

See the unique request URL.

Method = **jimi.open.instruction.result**

7.27.3 HTTP request method

POST

7.27.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		accesstoken: used for identifying legal third party
imei	string	Yes	-	Device imei

7.27.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Result list:

Key	Type	Description
codeId	string	Command code
code	string	Command sent
content	string	Content replied by device
isExecute	string	command status 0: execution failed, 1: successful execution, 3: to be sent, 4: canceled
sendTime	string	Time, format: yyyy-MM-dd HH:mm:ss
sender	string	sender
receiveDevice	string	Received imei
isOffline	string	0: online 1: offline
idsource	string	Command description

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "codeId": "99",
      "code": "status#",
      "content": "Parameter error",
      "isExecute": "4",
      "sendTime": "2017-06-19 11:46:00",
```

```
"sender": "jimitest",
"receiveDevice": "868120111111117",
"isOffLine": "1",
"idsource": "User-defined command"
}
]
```

Return error example:

```
{"code":xxx,"message":"Illegal device"}
```

7.28 Send raw command data to device

7.28.1 Description

Send raw command to device.

7.28.2 Request URL

See the unique request URL.

Method = **jimi.open.instruction.raw.send**

7.28.3 HTTP request method

POST

7.28.4 Request parameters

(1) [Common parameters](#)

(2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		accesstoken: used for identifying legal third party
imei	String	Yes	-	Device imei
raw_cmd	string	Yes	-	Raw command data(hex string)

Raw Command Example:

0B02C3A405060708

7.28.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Correct return example:

```
{
  "code": 0,
  "message": "command is successfully sent.",
  "result": null
}
```

Return error example:

```
{
  "code": 12005,
  "message": "Fail to send command. Result code: 226",
  "result": null
}
```

7.29 Push Received Raw Data

7.29.1 Description

Third-party platform should provide an URL(same as messages push URL) to receive the raw data(please contact us and provide the URL manually), JIMI server will push the raw data by sending a HTTP request using this URL.

7.29.2 Message service List

Message Type	Description
jimi.open.instruction.raw.receive	Raw data receive message type, different from alarm message.

Request content:

Key	Type	Description
msgType	string	Message type, corresponding to the message service list
data	string	The content of the message, corresponding to msgType

7.29.3 Message content

(**jimi.open.instruction.raw.receive**)

Alarms pushed are as follows:

Key	Type	Description
imei	string	Device imei
deviceName	string	Device name
raw_data	string	raw data from device.(hex string)

E.g:

Parameter1:

Key = msgType

Value = jimi.open.instruction.raw.receive

Parameter2:

Key = data

Value = {

"imei": "868120145233604",

"deviceName": "868120145233604",

"raw_data": "0A0C0F01182E0101"

}

7.30 Send media instruction

7.30.1 Description

Send video or photo command to device.

7.30.2 Request URL

See the unique request [URL](#).

Method = jimi.device.meida.cmd.send

7.30.3 HTTP request method

POST

7.30.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.
imei	string	Yes	-	Device IMEI
camera	string	Yes	mediaType=1 Only limited 1 or 2	1-front camera 2- inward camera 3- front + inward camera
mediaType	string	Yes		1 -photo 2-video
shootTime	string	No	0 or 3-10	mediaType=2 Recording duration 3-10

7.30.5 Response

Key	Type	Description
code	int	Return code: 0: Success other: failure. Refer to the error code description
Result	JSON	<code>{"code": "100", "data": "1.3.3", "msg": "Communication successful response", "cmdSeqNo": "1"}</code> Return code: 225: time out 226: Parameter error 227: The command is not executed correctly 228: The device is not online 229: Network error, connection error, etc. 238: Device interrupted 240: Data format error
message	string	Description of sending command result.

Success example:

```
{  
  "code": 0,  
  "message": "Operation successful",  
  "result": {"code": "255", "data": "1.3.3", "msg": "通信成功响应", "cmdSeqNo": "1"}  
}
```

Exception example:

```
{
  "code": -1,
  "message": "Operation successful",
  "result": {"code": "228", "data": "1.3.3", "msg": "设备不在线", "cmdSeqNo": "1"}
}
```

7.31 Receive Notification

7.31.1 Description

Third-party platform should provide an URL address to receive the notification(please contact us and provide the URL manually), JIMI server will push the notification by sending a HTTP request using this URL.

7.31.2 Message service List

Message Type	Description
jimi.push.device.alarm	Alarm data

Request content:

Key	Type	Description
msgType	String	Message type, corresponding to the message service list
data	String	The content of the message, corresponding to msgType

7.31.3 Message content (**jimi.push.device.alarm**)

Alarms pushed are as follows:

Key	Type	Description
imei	string	Device imei
deviceName	string	Device name
alarmType	string	Alarm type
alarmName	string	Alarm name
lat	string	Latitude

lng	string	Longitude
alarmTime	string	Alarm time, format (yyyy-MM-dd HH: mm: ss)

E.g:

Parameter1:

Key = msgType

Value = jimi.push.device.alarm

Parameter2:

Key = data

Value = {

"imei": "868120145233604",

"deviceName": "868120145233604",

"alarmType": "2",

"alarmName": "Power off alarm",

"lat": 40.65615416521587,

"lng": 109.89894039833524,

"alarmTime": "2017-05-08 12:00:00"

}

7.32 Get device alarm list

7.32.1 Description

Get device alarm list.

Time range of searching criteria should be within 1 month.

Return maximum 1000 rows.

7.32.2 Request URL

See the unique request URL.

Method = jimi.device.alarm.list

7.32.3 HTTP request method

POST

7.32.4 Request parameters

(1) [Common parameters](#)

(2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		accesstoken: used for identifying legal third party

imei	string	Yes	-	Device imei
alertTypeld	string	No		If not specify alertTypeld, all alert type will return.
begin_time	date	No		if not provide begin_time & end_time, returns latest 50 alerts of last 1 month.
end_time	date	No		

7.32.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data

Result list:

Key	Type	Description
DeviceName	string	Device Name
IMEI	string	IMEI
model	string	Device Model
account	string	Account
alertTypeld	string	Alert type ID
alertType	string	Alert type
alertTime	string	Alert time
positioningTime	string	Time of alert positioning
lng	double	longitude
lat	double	latitude

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": [
    {
      "deviceName": "ABC-34352",
      "IMEI": "343503422910345",
      "model": "GT06N",
      "account": "test1234",
      "alertTypeld": "1002",
      "alertType": "ACC On",
      "alertTime": "2019-03-14 14:02:03",
      "positioningTime": "2019-03-14 14:02:03",

```

```
    "lat": 22.577144898887813,  
    "lng": 113.91674845964586  
  }  
]  
}
```

Return error example:

```
{"code":xxx,"message":"Illegal device"}
```

~~7.33 (Deprecated)Send command (for scooter device)~~

~~7.34 (Deprecated)Get detail information of scooter~~

7.35 Get history video list

7.35.1 Description

Send Historical video file list upload command to device or query file list.

This API interface is only applicable to the old firmware of the JC200 and JC400 models of the Tracksolid platform.

Other models of devices can use API : [7.21 Get Device Live Steaming Page URL](#)

7.35.2 Request URL

See the unique request URL.

Method = **jimi.device.history.file.list**

7.35.3 HTTP request method

POST

7.35.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.
imei	string	Yes	-	Device IMEI
type	string	Yes		1-upload 2- query

7.35.5 Response

Key	Type	Description
code	int	Return code: 0: Success other: failure. Refer to the error code description
Result	JSON	type=1 <pre>{ "code": "100", "data": "1.3.3", "msg": "Successful response", "cmdSeqNo": "1" }</pre> Return code: 225: time out 226: Parameter error 227: The command is not executed correctly 228: The device is not online 229: Network error, connection error, etc. 238: Device interrupted 240: Data format error type=2 <pre>{ "2018_03_29_16_51_45.mp4", "2018_03_29_16_52_46.mp4", "2018_03_29_16_53_47.mp4" }</pre>
message	string	Description of sending command result.

type=1

Success example:

```
{
  "code": 0,
  "message": "Operation successful",
  "result": {
    "code": "255",
    "data": "1.3.3",
    "msg": "Successful response",
    "cmdSeqNo": "1"
  }
}
```

Exception example:

```
{
  "code": -1,
  "message": "Operation successful",
  "result": {
    "code": "228",
    "data": "1.3.3",
    "msg": "Device is offline",
    "cmdSeqNo": "1"
  }
}
```

type=2

```
{
  "code": 0,
```

```
"message": "Operation successful",
"result": "2018_03_29_16_51_45.mp4,2018_03_29_16_52_46.mp4,"}
}
```

7.36 Send history video instruction

7.36.1 Description

Send upload history video file command to device.

7.36.2 Request URL

See the unique request URL.

Method = `jimi.device.history.cmd.send`

7.36.3 HTTP request method

POST

7.36.4 Request parameters

(1) [Common parameters](#)

(2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.
imei	string	Yes	-	Device IMEI
type	string	Yes		1-Full fragment 2-Event fragment
camera	string	Yes		1-out 2-in
fileName	string	No	type=1 is not null	Historical video file name
time	string	No	type=2 is not null	Event time point, time format yyyy-MM-dd HH:mm:ss

7.36.5 Response

Key	Type	Description
code	int	Return code: 0: Success other: failure. Refer to the error code description
Result	JSON	{"code": "100", "data": "1.3.3", "msg": "Successful response", "cmdSeqNo": "1"} Return code: 225: time out 226: Parameter error 227: The command is not executed correctly 228: The device is not online 229: Network error, connection error, etc. 238: Device interrupted 240: Data format error
message	string	Description of sending command result.

Success example:

```
{  
  "code": 0,  
  "message": "Operation successful",  
  "result": {"code": "255", "data": "1.3.3", "msg": "Successful response", "cmdSeqNo": "1"}  
}
```

Exception example:

```
{  
  "code": -1,  
  "message": "Operation successful",  
  "result": {"code": "228", "data": "1.3.3", "msg": "Device is offline", "cmdSeqNo": "1"}  
}
```

7.37 Get video rtmp url

7.37.1 Description

Get video rtmp url

7.37.2 Request URL

See the unique request URL.

Method = **jimi.open.video.rtmp.url**

7.37.3 HTTP request method

POST

7.37.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.
imei	string	Yes	-	Device IMEI

7.37.5 Response

Key	Type	Description
code	int	Return code: 0: Success other: failure. Refer to the error code description
Result	JSON	<pre>{ "code": 0, "message": "success", "result": "rtmp://36.133.0.208:1935/0/353376110035950?uld=ope napi8b7914c3e4c188def67edd6b4a743146&vhost=8&use r=172&expire_stamp=1595923486798&ext=&channel=0&t oken=25b422283ff824461b33d8c5059d" }</pre> Return code: 225: time out 226: Parameter error 227: The command is not executed correctly 228: The device is not online 229: Network error, connection error, etc. 238: Device interrupted 240: Data format error
message	string	Description of sending command result.

Success example:

```
{  
  "code": 0,  
  "message": "success",
```

```
{
  "result":
    "rtmp://36.133.0.208:1935/0/353376110035950?uld=openapi8b7914c3e4c188def67edd6b4a743146&vhost=8&user=172&expire_stamp=1595923486798&ext=&channel=0&token=25b422283ff824461b33d8c5059d"
}
```

Exception example:

```
{
  "code": 228,
  "message": "The device is not online",
  "result": "null"
}
```

7.38 Get Device JIMI Photo or Video URL

7.38.1 Description

Get device photo or video URL which capture by camera.

7.38.2 Request URL

See the unique request URL.

Method = `jimi.device.jimi.media.URL`

7.38.3 HTTP request method

POST

7.38.4 Request parameters

- (1) [Common parameters](#)
- (2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes		Access token: used to identify legal client.
imei	string	Yes	-	Device IMEI
camera	string	Yes		1-front camera 2- inward camera 3 both
media_type	string	Yes		1 -photo 2-video 3-both
start_time	date	No		Start time of photo or video created.
end_time	date	No		End time of photo or video created.
token	string	No		Token used to validate whether

				can access photo or video or not.
page_no	int	No		Zero indexed, 0 by default.
page_size	int	No		10 rows by default.

7.38.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data,could be multiple rows.

result list:

Key	Type	Description
thumb_URL	string	URL of video or photo thumbnail.
file_URL	string	URL of video or photo.
mime_type	string	Mime type of video or photo
create_time	long	Create time of video or photo.Unix timestamp format
alarm_time	long	The time at which the alarm was triggered, Unix timestamp format
media_type	string	1-photo 2-video
camera	string	0-front camera 1-inward camera
file_size	int	File size of photo or video.

Remark: Unix timestamp; Example: 161105520 = 2021-01-20 09:18:40

Correct return example:

```
{
  "code": 0,
  "message": "Operation successful",
  "result":
    [
      {
        "thumb_URL": "http://8.210.205.58:8081/normal/get?fileKey=2021_01_20_09_17_49_I_28.jpg",
        "file_URL": "http://8.210.205.58:8081/normal/get?fileKey=357730090564767_29057540_2021_01_20_09_17_49_I_28_128.mp4",
        "create_time": 161105520,
        "mime_type": "video/mp4",
        "media_type": 2,
        "alarm_time": 161105469,
        "camera": 0,
```

```
    "file_size": "12108649"
  },
  {
    "thumb_URL": "http://8.210.205.58:8081/normal/get?fileKey=2021_01_20_08_06_13_I_56.jpg",
    "file_URL": "http://8.210.205.58:8081/normal/get?fileKey=357730090564767_00000000_2021_01_20_08_06_13_I_56_146.mp4",
    "create_time": 1611101264,
    "mime_type": "video/mp4",
    "media_type": 2,
    "alarm_time": 1611101173,
    "camera": 0,
    "file_size": "48452069"
  }
]
}
```

Wrong return example:

```
{"code":xxx,"message":"imei doesn't exists"}
```

7.39 Edit user information

7.39.1 Description

Edit the user information of the platform, only edit the user's nickname, mobile phone number, email address, contact person, company name and permissions.

7.39.2 Request URL

See the [unique request URL](#).
Method = **jimi.user.child.update**

7.39.3 HTTP Request method

POST

7.39.4 Request parameters

(1) [Common parameters](#)

(2) Private parameters

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	Access token for security access JIMI Server.
edit_account	String	Yes		Account name, length of 3~30 characters. Support special characters like "_@." as well as a-Z, 0-9.
nick_name	String	Yes		Nick name or customer name
telephone	String	No		
Email	String	Yes		User could retrieve password if forgot it.
contact_person	String	No		contact
company_name	String	No		Company name
permissions	String	Yes		Web Login App Login Send Command Set Working Mode Edit by Web Edit by App

				6 digital represents enable/disable perssion.
--	--	--	--	---

7.39.5 Response

Key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned data,could be multiple rows.

Correct return example:

```
{
  "code": 0,
  "message": "Account update success!",
  "result": null,
```

7.40 Get parking/idling data of devices

7.40.1 Description

Get device(s) parking/idling data of specified time range.

7.40.2 Request URL

See the unique request URL.

Method =jimi.open.platform.report.parking

7.40.3 HTTP Request method

POST

7.40.4 Request parameters

(1) [Common parameters](#)

(2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party
account	string	Yes	-	The account to which the new fence belongs
imeis	string	Yes	-	Example values: 869247060001770,869247060001259,869247060001804
start_time	string	Yes	-	Start time Format: yyyy-MM-dd HH:mm:ss
end_time	string	Yes	-	End time Format: yyyy-MM-dd HH:mm:ss end_time should be earlier than current time
start_row	string	Yes	-	Row number of result set.
page_size	string	Yes	-	Records in one page.
acc_type	string	Yes	-	on: get the Idling data; off: get the parking data;

7.40.5 Response

key	Type	Description
code	int	Return code: 0: return correctly 1100: Business exception Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	null
data	object	The returned data.

data list:

key	Type	Description
totalTime	string	Request processing time
dataTotalRows	string	Total rows
rows	array[object]	Data details

rows list:

key	Type	Description
imei	string	Imei of device
startTime	string	Start time
endTime	string	End time
durSecond	string	Parking time
lng	number	Longitude
lat	number	Latitude
addr	string	Address
deviceName	string	Device name
mcType	string	Device model
acc	string	Acc status
stopSecond	string	Length of parking

Correct return example:

```
{  
  "code": 0,  
  "message": "success",  
  "result": null ,  
  "data": {
```

```
"totalTime": "185641",
"dataTotalRows": "2",
"rows": [
  {
    "imei": "869247060001739",
    "startTime": "2022-12-10T01:05:33.000Z",
    "endTime": "2022-12-10T04:17:48.000Z",
    "durSecond": "11535",
    "lng": 113.943093,
    "lat": 22.576748,
    "addr": "Shigu Road, 松坪村, Xili Sub-district, Nanshan distri...",
    "deviceName": "JC450Pro-01739",
    "mcType": "JC450Pro",
    "acc": "on",
    "stopSecond": "11535"
  },
  {
    "imei": "869247060001739",
    "startTime": "2022-12-09T22:13:16.000Z",
    "endTime": "2022-12-10T01:04:25.000Z",
    "durSecond": "10269",
    "lng": 113.943002,
    "lat": 22.57649,
    "addr": "Shigu Road, 松坪村, Xili Sub-district, Nanshan distri...",
    "deviceName": "JC450Pro-01739",
    "mcType": "JC450Pro",
    "acc": "on",
    "stopSecond": "10269"
  }
]
}
```

Wrong return example:

```
{
  "code": 1100,
  "message": "Business exception ",
  "result": null,
  "data": null,
}
```

7.41 Create platform Geo-fence

7.41.1 Description

Create a platform geofence, the newly created platform geofence belongs to the default group.

7.41.2 Request URL

See the unique request URL.

Method = `jimi.open.platform.fence.create`

7.41.3 HTTP Request method

POST

7.41.4 Request parameters

(1) [Common parameters](#)

(2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party
account	string	Yes	-	The account to which the new fence belongs
fence_name	string	Yes	-	The name of the new fence
fence_type	string	Yes	circle or polygon	Fence type (circle/polygon)
fence_color	string	No	default: #3B7AFF	Fence color, standard RGB16 color column such as red #FF0000

geom	string	Yes	-	Collection of coordinate points Polygon: Latitude and longitude are separated by commas, and multiple locations are separated by '#', such as: 22.581714259546697,113.89460067944759#22.57323797629247,113.92 341832019817 (Need to transcode to Mars coordinate system) Round: 22.57540001979625,113.88814802356858 Note: latitude comes before longitude
radius	string	No	200-5000 default: 200	Fence radius, in m, range 200m~5000m,When it is a circle, it needs to be passed in, otherwise it will become a polygon
description	string	No	-	fence description

7.41.5 Response

key	Type	Description
code	int	Return code: 0: return correctly 1114: Fence name already exists -1:The system is busy Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	null
data	string	The returned data. fence_id returned if succeed.

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": null,
  "data": "c33b80d46d2b41d588a5afbd6f8b6285"
}
```

```
}
```

Wrong return example:

```
{
  "code": 1114,
  "message": "That name already exists ",
  "result": null ,
  "data": null ,
}
```

7.42 Edit platform Geo-fence

7.42.1 Description

Edit platform geofence informatio.

7.42.2 Request URL

See the unique request URL.

Method =jimi.open.platform.fence.create

7.42.3 HTTP Request method

POST

7.42.4 Request parameters

(1) [Common parameters](#)

(2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party
account	string	Yes	-	The account to which the fence belongs
fence_id	string	Yes	-	Fence id that needs to be edited
fence_name	string	Yes	-	The name of the new fence

fence_type	string	Yes	circle or polygon	Fence type (circle/polygon)
fence_color	string	No	default: #3B7AFF	Fence color, standard RGB16 color column such as red #FF0000
geom	string	Yes	-	Collection of coordinate points Polygon: Latitude and longitude are separated by commas, and multiple locations are separated by '#', such as: 22.581714259546697,113.89460067944759#22.57323797629247,113.92 341832019817 (Need to transcode to Mars coordinate system) Round: 22.57540001979625,113.88814802356858 Note: latitude comes before longitude
radius	string	No	200-5000 default: 200	Fence radius, in m, range 200m~5000m,When it is a circle, it needs to be passed in, otherwise it will become a polygon
description	string	No	-	fence description

7.42.5 Response

key	Type	Description
code	int	Return code: 0: return correctly -1:The system is busy Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	null
data	string	The returned data. fence_id returned if succeed.

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": null,
  "data": "c33b80d46d2b41d588a5afbd6f8b6285"
}
```

Wrong return example:

```
{
  "code": -1,
  "message": "The system is busy ",
  "result": null,
  "data": null,
}
```

7.43 Delete platform Geo-fence

7.43.1 Description

Delete platform geofence.

7.43.2 Request URL

See the unique request URL.

Method =jimi.open.platform.fence.delete

7.43.3 HTTP Request method

POST

7.43.4 Request parameters

(1) [Common parameters](#)

(2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party

account	string	Yes	-	The account to which the new fence belongs
fence_id	string	Yes	-	Fence id that needs to be deleted

7.43.5 Response

key	Type	Description
code	int	Return code: 0: return correctly -1:The system is busy Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	null
data	string	null

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": null ,
  "data": null
}
```

Wrong return example:

```
{
  "code": -1,
  "message": " The system is busy ",
  "result": null ,
  "data": null
}
```

7.44 Geo-fence related device

7.44.1 Description

Geofence related device.

7.44.2 Request URL

See the unique request URL.

Method =jimi.open.platform.fence.bind

7.44.3 HTTP Request method

POST

7.44.4 Request parameters

(1) [Common parameters](#)

(2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party
account	string	Yes	-	The account to which the new fence belongs
fence_id	string	Yes	-	
imeis	string	No	-	Example values: 869247060001770,869247060001259,869247060001804
alert_type	string	No	-	Alarm types, if multiple alarms are configured at the same time, separate them with commas "," 1. in: into the fence; 2. out: out of the fence; 3. stayTimeIn: If you do not enter the fence for more than N days, the alarm will be triggered; 4. stayTimeOut: If you do not leave the fence for more than N days,

				the alarm will be triggered;
stay_time_in	int	No	-	Do not enter the fence for more than N days to trigger an alarm. When there is a value here, you need to pass in stayTimeIn in the alert_type.
stay_time_out	int	No		Do not leave the fence for more than N days to trigger an alarm. When there is a value here, you need to pass in stayTimeOut in alert_type.

7.44.5 Response

key	Type	Description
code	int	Return code: 0: return correctly 1100:Business exception Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	null
data	string	The returned data. the number of related devices returned if succeed.

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": null ,
  "data": "3"
}
```

Wrong return example:

```
{
  "code": 1100,
  "message": "Business exception ",
  "result": null ,
  "data": null ,
}
```

7.45 List platform geofences of an account

7.45.1 Description

Query platform geofences of a specified account.

7.45.2 Request URL

See the unique request URL.

Method =jimi.open.platform.fence.list

7.45.3 HTTP Request method

POST

7.45.4 Request parameters

(1) [Common parameters](#)

(2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party
account	string	Yes	-	The account to which the geofences belong
page_no	number	No	>=1 default:1	Page number
page_size	number	No	1-50 default:10	Records in one page.

7.45.5 Response

key	Type	Description
code	int	Return code: 0: return correctly 1100:Business exception Other: failure. Refer to the error code description

message	string	If code is not 0, there will be a corresponding error message
result	string	Number of fences belonging to the account and details of each fence

result:

Parameter	Type	Description
total	string	Number of fences belonging to the account
fence_id	string	Fence_id
fence_name	string	The name of the geofence
fence_type	string	Fence type (circle/polygon)
fence_color	string	default: #3B7AFF
coordinates	string	Collection of coordinate points Polygon: Latitude and longitude are separated by commas, and multiple locations are separated by ';', such as: 22.581714259546697,113.89460067944759;22.57323797629247,113.92341832019817 (Need to transcode to Mars coordinate system) Round: 22.57540001979625, 113.88814802356858 Note: latitude comes before longitude
radius	string	Fence radius, in m, range 200m~5000m, When it is a circle, it needs to be passed in, otherwise it will become a polygon
description	string	fence description
imeis	string	Example values: 869247060001770,869247060001259,869247060001804
alert_type	string	Alarm types, separated by commas in: into the fence; out: out of the fence; stayTimeIn: If you do not enter the fence for more than N days, the alarm will be triggered; stayTimeOut: If you do not leave the fence for more than N days, the alarm will be triggered;
stay_time_in	int	Do not enter the fence for more than N days to trigger an alarm. When there is a value here, you need to pass in stayTimeIn in the alert_type.

stay_time_out	int	Do not leave the fence for more than N days to trigger an alarm. When there is a value here, you need to pass in stayTimeOut in alert_type.
---------------	-----	--

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "result": {
    "total": 294,
    "rows": [
      {
        "fence_id": "dfab43ea3e7a40e987056c857cccae7b",
        "fence_name": "test fence",
        "fence_type": "circle",
        "fence_color": "#3b7aff",
        "coordinates": "22.544382,114.004037",
        "radius": "4153",
        "description": "",
        "imeis": "231011234567990,869247060001655,868598060001827,869247060001259",
        "alert_type": "in",
        "stay_time_out": null,
        "stay_time_in": null,
        "account": "hao001"
      }
    ]
  }
}
```

Wrong return example:

```
{
  "code": -1,
  "message": "The system is busy ",
  "result": null ,
  "data": null ,
}
```

7.46 Move devices

7.46.1 Description

Move devices from one sub-account to another sub-account.

7.46.2 Request URL

See the unique request URL.

Method =jimi.open.device.move

7.46.3 HTTP Request method

POST

7.46.4 Request parameters

(1) [Common parameters](#)

(2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party
src_account	string	Yes	-	Transfer device from account
dest_account	string	Yes	-	Transfer device to account
imeis	string	Yes	-	Device imei
cleanBindFlag	string	No	-	1: clear data, 0: Do not clear data

7.46.5 Response

key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description
message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

Correct return example:

```
{  
  "code": 1112,  
  "message": " device already exists ",  
  "result": [  
    "202205454545454"  
  ],  
  "data": null  
}
```

Or:

```
{  
  "code": 0,  
  "message": " Transfer/Sell Equipment Successfully ",  
  "result": null,  
  "data": null  
}
```

Wrong return example:

```
{"code":xxx,"message":"no permissions"}
```

7.47 Get RFID reporting information

7.47.1 Description

Query the RFID information reported within a certain period of time.

7.47.2 Request URL

See the unique request URL.

Method =jimi.open.device.rfid.list

7.47.3 HTTP Request method

POST

7.47.4 Request parameters

- (1) [Common parameters](#)
- (2) private parameters as follow:

Parameter	Type	Required	Remark	Description
access_token	string	Yes	-	accesstoken: used for identifying legal third party
account	string	Yes	-	The account to which the device belongs. If the device to be queried belongs to multiple different users, please enter the common superior account of these users here.
imeis	string	No	-	Device imei(s), separate by comma. No more than 100 each time If neither imei nor card id is entered, all RFID reporting records within the query time period will be queried.
card_ids	string	No	-	RFID(s),separate by comma. No more than 100 each time If neither imei nor card id is entered, all RFID reporting records within the query time period will be queried.
begin_time	number	Yes	-	Start time Format: yyyy-MM-dd HH:mm:ss
end_time	number	Yes	-	End time Format: yyyy-MM-dd HH:mm:ss end_time should be earlier than current time Query up to 1 month of data at a time
page_no	int	no	>=1 default:1	Page number
page_size	int	no	1-100 default:1 0	Records in one page.

7.47.5 Response

key	Type	Description
code	int	Return code: 0: return correctly Other: failure. Refer to the error code description

message	string	If code is not 0, there will be a corresponding error message
result	string	The returned parameters

result list:

Key	Type	Description
cardId	string	The corresponding RFID in the reporting record
imei	string	RFID record reporting corresponding imei
photo	string	Photo taken by the device during RFID reporting
operationTime	string	RFID record reporting time

Correct return example:

```
{
  "code": 0,
  "message": "success",
  "data": {
    "currentPage": 1,
    "pageSize": 10,
    "startRow": 1,
    "endRow": 10,
    "totalRecord": 34,
    "totalPage": 4,
    "result": [
      {
        "imei": "890768902346789",
        "cardId": "278907",
        "operationTime": "2024-04-22 09:12:23",
        "photo":
      }
    ]
  }
}
```

Wrong return example:

```
{"code":xxx,"message":"no permissions"}
```

8 Appendix

8.1 Device alarm type(alarm type Id)

The alarm type ID of the alarm type actively reported by the device is a number.

The alarm type ID of the alarm generated after platform logic judgment is English text.

alertTypeId	alertType
1	SOS alert
10	Enter GPS blind zone alert
100	Cancel Notification for Temperature Alert
101	Cancel Notification for Collision Alert
11	Exit GPS blind zone alert
113	Increase in oil level
114	Install alert
115	Oil Sence Timeout
119	High voltage at ADC1
12	Booting notification
120	Low voltage at ADC1
126	High humidity
127	Low humidity
128	DVR vibration alert
13	GPS first fix notification
135	Overspeed alert(DVR)
136	Power off alert(DVR)
138	Immobilization ON
139	Immobilization OFF
14	Low external power alert
140	Close eyes Alert
141	Switch Land Transport Mode Alarm
142	Environmental Anomaly Alarm
143	Distraction Alert
144	Sudden Acceleration Alert(DVR)
145	Sudden Deceleration Alert(DVR)
146	Sharp Turn Alert(DVR)
147	Collision Alert(DVR)
148	No Face Alert
149	Switch Ocean Transport Mode Alarm

15	Low power protection alert
150	Switch Static Transport Mode Alarm
151	Phone Calling Alert
154	Smoking Alert
16	Sim card change alert
160	Yawn Alert
163	Head lowered
165	RFID reporting event
168	Engine failure
169	Undervoltage
17	Power off alert
170	Drinking
171	Light detected alert
172	Bluetooth MAC searched
173	Bluetooth MAC lost
18	Airplane mode after low power protection
19	Disassembly alert
191	Device Plug-out Alert
197	Engine ON
198	Engine OFF
199	Overtime driving alert
2	Power cut off alert
20	Door detection alert
202	overspeed warning
203	Overtime parking warning
204	Forward collision warning
205	Lane departure warning
206	Vehicle too close warning
207	pedestrian collision warning
208	DMS fatigue warning
21	Battery low power shutdown
22	Voice alarm
224	Device Plug-in Alert
227	Overheating
230	INPUT1 was activated
231	INPUT1 was deactivated
232	INPUT2 was activated
233	INPUT2 was deactivated
24	Cover Move Alert
25	Internal low battery alert

254	Ignition on
256	Fence entry alarm (Bluetooth)
257	Exit fence alarm (Bluetooth)
258	Fence entry alarm (WIFI)
259	Exit fence alarm (WIFI)
260	long periods of stillness
261	Start exercise reminder
262	Stop exercise reminder
263	LTE Jamming Detected
266	LTE Jamming Ended
267	GPS Jamming Detected
268	GPS Jamming Ended
28	Door open alert
29	Door close alert
3	Vibration alert
35	Fall Alert
36	Plug in charger
39	Unauthorized Open Alert
4	Enter geo-fence(terminal)
40	Initiative Offline(Power Off) Alert
41	Sudden Acceleration Alert
42	Sharp Turn Left Alert
43	Sharp Turn Right Alert
44	Collision Alert
45	Vehicle Turn Over Alarm
48	Sudden Deceleration Alert
5	Exit geo-fence(terminal)
50	Device Pull Out Alarm
55	Collision Alert
58	Cancel Notification for Unauthorized Open Alert
6	Overspeed alert(terminal)
71	Fatigue driving alert
76	Sharp turn alarm
77	Abrupt lane switching alarm
78	Vehicle stability
79	Vehicle angle abnormality
80	Door close alert
81	Door open alert
82	Temperature Alert
83	Stealing oil alarm

86	Start charging
87	Stop charging/remove charger
89	full of reminders
9	Displacement alert(terminal)
90	Low battery alert
91	High Temperature Alert(terminal)
92	Low Temperature Alert(terminal)
ACC_OFF	ACC OFF
ACC_ON	ACC ON
burglarStatus_0	Disarm
burglarStatus_1	Arm
burglarStatus_2	Alert
carFault	Vehicle fault alert
displacementAlarm	Night Driving Alert
DMSAlert	DMS Alert
drivingBehaviorAlert	Driving Behavior Alert
drivingBehaviorAlertDVR	Driving Behavior Alert(DVR)
fenceOverspeed	Fence Overspeed alert
geozone	Geo-fence alert
high_temp_alarm	High Temperature Alert(platform)
in	Enter geo-fence
laneshift	Route Deviation Alert
low_temp_alarm	Low Temperature Alert(platform)
mileageAlarm	Maintenance alert
obd	OBD alert
offline	Offline alert
other	Other alerts
out	Exit geo-fence
overSpeed	Overspeed alert(platform)
sensitiveAreasFence	Sensitive areas fence
statusLeftFrontDoors_0	Left front door close
statusLeftFrontDoors_1	Left front door open
statusLeftFrontWindows_0	Left front window close
statusLeftFrontWindows_1	Left front window open
statusLeftRearWindows_0	Left rear door close
statusLeftRearWindows_1	Left rear door open
statusRightFrontDoors_0	Right front door close
statusRightFrontDoors_1	Right front door open
statusRightFrontWindows_0	Right front window close
statusRightFrontWindows_1	Right front window open

statusRightRearDoors_0	Right rear door close
statusRightRearDoors_1	Right rear door open
statusRightRearWindows_0	Right rear window close
statusRightRearWindows_1	Right rear window open
statusTrunk_0	Trunk close
statusTrunk_1	Trunk open
stayAlert	Parking alert
stayAlertOn	Idling alert
stayTimeIn	Long time not enter the Geo-fence
stayTimeOut	Long time not exit the Geo-fence
ubiAcce	Harsh acceleration
ubiColl	Collision
ubiDece	Harsh braking
ubiLane	Sudden lane change
ubiRoll	Rollover
ubiSatt	Roll and pitch
ubiStab	Skidding
ubiTurn	Harsh cornering