

Catalogue

Catalogue

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API Call Documentation

⚠ API Usage Statement and Disclaimer (Important)

To ensure service quality, the Developer reserves the right to at any time restrict, suspend, or terminate API access permissions for any user, particularly in the event of frequent or abnormal API call behavior, without prior notice.

When using the API services provided by this platform, users shall comply with the principle of fair use. The Developer shall not be held liable for any service disruptions, data loss, or functional limitations resulting from misuse of the interfaces, malicious scraping, or excessive repeated requests.

We reserve the right, based on our platform resources and business adjustment needs, to modify our API usage policy at any time, adjust call frequency limits, impose fees, or discontinue free services; users are therefore advised to stay informed and promptly adjust their usage behavior accordingly.

By using the APIs of this platform, you hereby acknowledge that you are aware of and agree to the above terms and conditions. We reserve the right to pursue legal action against any malicious attacks or activities that disrupt the operation of the platform.

Detailed invocation rules:

1. Each account may modify its IP whitelist up to 5 times per day.
2. Each account can make up to 1,440 calls per day + (number of validly renewed devices) × 5 additional calls.
3. Each device is limited to 5 calls per day via the trajectory interface.
4. Each IP address can initiate up to 10 requests per minute.

URL: api.yourdomain.com (data server domain name; specific domain name consultation services are provided by the service provider). The invocation method uniformly uses the Http POST method, supporting http/https, with the body content in JSON format. Format: <https://api.yourdomain.com/openapi?action=lastposition&token=6c1f1207c35d97a744837a19663ecdbe&serverid=0>

Parameter	Parameter declaration	Remarks
action	Various operations, such as: last position	Query final position
token	6c1f1207c35d97a744837a19663ecdbe	The login operation returns the current token, which can then be used by subsequent calls.
serverid	int	The login operation returns the current serve RID, which can then be used by other calls.

returned value:

Parameter	Data type	Explain	Define
status	int	State	Determine that the value is greater than 8900

State value	Define
-1	Unusual
0	Success
8901	No corresponding action found
8902	IP access frequency limit
8903	Account access restrictions
8904	The IP address is not on the whitelist.
8905	The number of account calls has been exhausted.
8906	The `action` method is not allowed to be called.
9903	tokenexceed the time limit
9906	No corresponding token was found.

API

Entry

Loginentry

The Token Is Valid for 24 Hours; We Recommend Logging in Once Every 23 Hours. Please Avoid Frequent Logins.

action=login

Parameter	Data type	Explain	Define
username	String	Login name	Supports both Chinese and English; supports username and device ID.
password	String	Password	A password that has been encrypted using MD5 is required; for a 32-character lowercase password "123456", the resulting MD5 hash is: e10adc3949ba59abbe56e057f20f883e
from	String	Login Source	"ANDROID" , "IPHONE" , "WEB" , "WEIXIN"
type	String	Login Type	"USER" , "DEVICE"

Request example: url: <https://xxx.com/webapi?action=login> body: JSON

```
{ "type": "USER", "from": "web", "username": "minigps", "password": "e10adc3949ba59abbe56e057f20f883e", "browser": "Chrome/104.0.0.0" }
```

returned value:

Parameter	Data type	Explain	Define
status	int	State	0: Success-1: Failure 1: Invalid password 2: Login prohibited 3: Disabled 4: Device expired 5: Device expired 9903: Token expired 99:06: Login from other locations
cause	String	State description	OK indicates success; other descriptions indicate anomalies.
token	String	Attestationid	Valid for 24 hours; when calling subsequent interfaces, the URL path must be included.
serverid	int	Serverid	When calling subsequent interfaces, the URL path must be included.

MD5 Java example code: `public static String Md5(String plainText) {try {MessageDigest md = MessageDigest.getInstance("MD5"); md.update(plainText.getBytes()); byte[] b = md.digest(); int i; StringBuffer buf = new StringBuffer(""); for (int offset = 0; offset < b.length; offset++) {i = b[offset]; if (i < 0) i += 256; if (i < 16) buf.append("0"); buf.append(Integer.toHexString(i));} System.out.println("MD5 Util result:" + buf.toString()); // 32-bit encryption System.out.println("MD5 Util result:" + buf.toString().substring(8, 24); // 16-bit encryption: return buf.toString();} catch (NoSuchAlgorithmException e) {e.printStackTrace(); return "";} } public static void main (String [] args) {MD5Util.Md5("123456"); System.out.println("e10adc3949ba59abbe56e057f20f883e");} The source code for the MD5.js example is as follows: var md5password = md5('1213456'); console.log(md5password); // 123456 = e10adc3949ba59abbe56e057f20f883e`

```
(function(){ var crypt = require('crypt'), utf8 = require('charenc').utf8, isBuffer = require('is-buffer'), bin = require('charenc').bin, // The core md5 = function (message, options) { // Convert to byte array if (message.constructor == String) if (options && options.encoding === 'binary') message = bin.stringToBytes(message); else message = utf8.stringToBytes(message); else if (isBuffer(message)) message = Array.prototype.slice.call(message, 0); else if (!Array.isArray(message) && message.constructor !== Uint8Array) message = message.toString(); // else, assume byte array already
```

```
var m = crypt.bytesToWords(message),
    l = message.length * 8,
    a = 1732584193,
```

```

    b = -271733879,
    c = -1732584194,
    d = 271733878;

// Swap endian
for (var i = 0; i < m.length; i++) {
    m[i] = ((m[i] << 8) | (m[i] >>> 24)) & 0x00FF00FF |
        ((m[i] << 24) | (m[i] >>> 8)) & 0xFF00FF00;
}

// Padding
m[l >>> 5] |= 0x80 << (l % 32);
m[(((l + 64) >>> 9) << 4) + 14] = l;

// Method shortcuts
var FF = md5._ff,
    GG = md5._gg,
    HH = md5._hh,
    II = md5._ii;

for (var i = 0; i < m.length; i += 16) {

    var aa = a,
        bb = b,
        cc = c,
        dd = d;

    a = FF(a, b, c, d, m[i+ 0], 7, -680876936);
    d = FF(d, a, b, c, m[i+ 1], 12, -389564586);
    c = FF(c, d, a, b, m[i+ 2], 17, 606105819);
    b = FF(b, c, d, a, m[i+ 3], 22, -1044525330);
    a = FF(a, b, c, d, m[i+ 4], 7, -176418897);
    d = FF(d, a, b, c, m[i+ 5], 12, 1200080426);
    c = FF(c, d, a, b, m[i+ 6], 17, -1473231341);
    b = FF(b, c, d, a, m[i+ 7], 22, -45705983);
    a = FF(a, b, c, d, m[i+ 8], 7, 1770035416);
    d = FF(d, a, b, c, m[i+ 9], 12, -1958414417);
    c = FF(c, d, a, b, m[i+10], 17, -42063);
    b = FF(b, c, d, a, m[i+11], 22, -1990404162);
    a = FF(a, b, c, d, m[i+12], 7, 1804603682);
    d = FF(d, a, b, c, m[i+13], 12, -40341101);
    c = FF(c, d, a, b, m[i+14], 17, -1502002290);
    b = FF(b, c, d, a, m[i+15], 22, 1236535329);

    a = GG(a, b, c, d, m[i+ 1], 5, -165796510);
    d = GG(d, a, b, c, m[i+ 6], 9, -1069501632);
    c = GG(c, d, a, b, m[i+11], 14, 643717713);
    b = GG(b, c, d, a, m[i+ 0], 20, -373897302);
    a = GG(a, b, c, d, m[i+ 5], 5, -701558691);
    d = GG(d, a, b, c, m[i+10], 9, 38016083);
    c = GG(c, d, a, b, m[i+15], 14, -660478335);
    b = GG(b, c, d, a, m[i+ 4], 20, -405537848);
    a = GG(a, b, c, d, m[i+ 9], 5, 568446438);
    d = GG(d, a, b, c, m[i+14], 9, -1019803690);
    c = GG(c, d, a, b, m[i+ 3], 14, -187363961);
    b = GG(b, c, d, a, m[i+ 8], 20, 1163531501);
    a = GG(a, b, c, d, m[i+13], 5, -1444681467);
    d = GG(d, a, b, c, m[i+ 2], 9, -51403784);
    c = GG(c, d, a, b, m[i+ 7], 14, 1735328473);
    b = GG(b, c, d, a, m[i+12], 20, -1926607734);

    a = HH(a, b, c, d, m[i+ 5], 4, -378558);
    d = HH(d, a, b, c, m[i+ 8], 11, -2022574463);
    c = HH(c, d, a, b, m[i+11], 16, 1839030562);
    b = HH(b, c, d, a, m[i+14], 23, -35309556);
    a = HH(a, b, c, d, m[i+ 1], 4, -1530992060);
    d = HH(d, a, b, c, m[i+ 4], 11, 1272893353);
    c = HH(c, d, a, b, m[i+ 7], 16, -155497632);
    b = HH(b, c, d, a, m[i+10], 23, -1094730640);
    a = HH(a, b, c, d, m[i+13], 4, 681279174);
    d = HH(d, a, b, c, m[i+ 0], 11, -358537222);

```

```

c = HH(c, d, a, b, m[i+ 3], 16, -722521979);
b = HH(b, c, d, a, m[i+ 6], 23, 76029189);
a = HH(a, b, c, d, m[i+ 9], 4, -640364487);
d = HH(d, a, b, c, m[i+12], 11, -421815835);
c = HH(c, d, a, b, m[i+15], 16, 530742520);
b = HH(b, c, d, a, m[i+ 2], 23, -995338651);

a = II(a, b, c, d, m[i+ 0], 6, -198630844);
d = II(d, a, b, c, m[i+ 7], 10, 1126891415);
c = II(c, d, a, b, m[i+14], 15, -1416354905);
b = II(b, c, d, a, m[i+ 5], 21, -57434055);
a = II(a, b, c, d, m[i+12], 6, 1700485571);
d = II(d, a, b, c, m[i+ 3], 10, -1894986606);
c = II(c, d, a, b, m[i+10], 15, -1051523);
b = II(b, c, d, a, m[i+ 1], 21, -2054922799);
a = II(a, b, c, d, m[i+ 8], 6, 1873313359);
d = II(d, a, b, c, m[i+15], 10, -30611744);
c = II(c, d, a, b, m[i+ 6], 15, -1560198380);
b = II(b, c, d, a, m[i+13], 21, 1309151649);
a = II(a, b, c, d, m[i+ 4], 6, -145523070);
d = II(d, a, b, c, m[i+11], 10, -1120210379);
c = II(c, d, a, b, m[i+ 2], 15, 718787259);
b = II(b, c, d, a, m[i+ 9], 21, -343485551);

a = (a + aa) >>> 0;
b = (b + bb) >>> 0;
c = (c + cc) >>> 0;
d = (d + dd) >>> 0;
}

return crypt.endian([a, b, c, d]);

};

// Auxiliary functions md5._ff = function (a, b, c, d, x, s, t) { var n = a + (b & c | ~b & d) + (x >>> 0) + t; return ((n << s) | (n >>> (32 - s))) + b; }; md5._gg = function (a, b, c, d, x, s, t) { var n = a + (b & d | c & ~d) + (x >>> 0) + t; return ((n << s) | (n >>> (32 - s))) + b; }; md5._hh = function (a, b, c, d, x, s, t) { var n = a + (b ^ c ^ d) + (x >>> 0) + t; return ((n << s) | (n >>> (32 - s))) + b; }; md5._ii = function (a, b, c, d, x, s, t) { var n = a + (c ^ (b | ~d)) + (x >>> 0) + t; return ((n << s) | (n >>> (32 - s))) + b; };

// Package private blocksize md5._blocksize = 16; md5._digestsize = 16;

module.exports = function (message, options) { if (message === undefined || message === null) throw new Error('Illegal argument ' + message);

var digestbytes = crypt.wordsToBytes(md5(message, options));
return options && options.asBytes ? digestbytes :
    options && options.asString ? bin.bytesToString(digestbytes) :
    crypt.bytesToHex(digestbytes);

};

})();

```

Log Out

action=logout

Parameter	Data type	Explain	Define
-----------	-----------	---------	--------

FOFEN Team

Gensharetrack URL: Share Location

action=gensharetrackurl

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	The system uniquely identifies a single device.
interval	int	Sharing duration	For how many minutes after the sharing timestamp is access to view the trajectory permitted?

returned value:

Parameter	Data type	Explain	Define
status	int	State	0 represents success; -1 represents failure.
cause	String	State description	OK indicates success; other descriptions indicate anomalies.
deviceid	String	Device serial number	The system uniquely identifies a single device.
shareurl	String	Shared URL	Copy and paste the shared information to the user, including the URL.
weburl	String	Web pageURL	The URL to be opened directly

Password-Free Quick Login

action = auto login 1.

Plain text method:

Parameter	Data type	Explain	Define
username	String	User name	urlencode (username)
password	String	Password	urlencode (password)
lg, lang, or language	String	Language	Selectablezhen
route	String	Redirected Interface	This field is optional; the default value is "monitor", and the available options are "monitor" and "track".

Example request steps:

- i. username=justdemo
- ii. password=Aa1357
- iii. Combine the following values into a string: username =justdemo & password =Aa1357
- iv. Final request URL: <http://yourdomain/#/login?username=justdemo&password=Aa1357>

2. Encryption method:

Parameter	Data type	Explain	Define
authcode	String	Authorization code	Generate an encrypted string using a username and password

Example request steps:

- i. username=justdemo
- ii. password=Aa1357
- iii. Combine the following values into a string: username =justdemo & password =Aa1357
- iv. By calling 'encodeURIComponent()' with a JavaScript function,
After applying 'encodeURIComponent()', the output is: 'username%3Djustdemo%26password%3DAa1357'
- vi. Base64 encoded: dXNIcm5hbWUIM0RqdXNOZGVtbyUyNnBhc3N3b3JkJTNEQWExMzU3
- vii. After applying encodeURIComponent, the resulting string is: dXNIcm5hbWUIM0RqdXNOZGVtbyUyNnBhc3N3b3JkJTNEQWExMzU3OQ%3D%3D
- viii. Final request URL: <http://yourdomain/#/login?authcode=dXNIcm5hbWUIM0RqdXNOZGVtbyUyNnBhc3N3b3JkJTNEQWExMzU3OQ%3D%3D>

Live Video

Startvideos_sync: Synchronize Online Video Playback

action = startvideos_sync The synchronization interface must wait for a 30-second timeout; upon successful playback, a 3-minute timer should be started, and the playback should be explicitly stopped to notify the user that the playback duration has expired. Subsequently, the playback should be explicitly stopped after 3.5 minutes to prevent unexpected playback failures for the user.

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channels	List	Channel list [1,2,3,4]	List of channels to be played
datatype	short	Playback Data Type	Recommended configurations: 0 Live Stream, 0 Audio/Video, 1 Video, 2 Two-way Intercom, 3 Monitoring, 4 Central Broadcasting, 5 Transparent Transmission
playtype	String	Playback Method	For "rtmp" and "flvs", it is recommended to use "flvs" for web pages, and "rtmp" for apps and mini-programs.

Return data:

Parameter	Data type	Explain	Define
status	int	Request status code	Refer to the table below for the description of the status field.
cause	string	Cause of error	
records	List	Channel List	

Channel data:

Parameter	Data type	Explain	Define
channel	int	Channel id	Starting from 1, it represents the first channel.
hasaudio	int	Whether voice feature is enabled (no longer available)	-1 Automatic 0 None 1 Yes
playurl	String	Audio and video playback URL (no longer in use)	https://video1.gps51.com:82/live/19000012029_1_0_1078_video.flv
playurlaudio	String	Audio playback URL	https://video1.gps51.com:82/live/19000012029_1_0_1078_audio.flv
playurlvideo	String	Video playback URL	https://video1.gps51.com:82/live/19000012029_1_0_1078_video.flv
uploadurlaudio	String	Address for uploading voice via walkie-talkie	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Stop Videos: End Live Streaming

`action=stopvideos`

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channels	List	Channel list [1,2,3,4]	List of channels to be played
videoclosetype	short	Disable data type	0 Turn off the associated audio and video data for this channel; 1) Turn off audio while keeping video; 2) Turn off video while keeping audio.

CapturePhotoSync: Quick Photo Capture

The `action = capture photo\_sync` sync interface requires a 30-second timeout; upon successful capture, it returns the URL of the captured image.

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channelid	int	Channel id	Channel ID, starting from 1
resolution	int	Resolution ratio	Reference Resolution List

//分辨率列表 // 0x01:320240 ; // 0x02:640480 ; // 0x03:800600 ; // 0x04:1024768; // 0x05:176144;[Qcif]; // 0x06:352288;[Cif]; // 0x07:704288;[HALF D1]; // 0x08:704576;[D1]; 返回数据 :

Parameter	Data type	Explain	Define
status	int	Request status code	-1 indicates an anomaly; 6 indicates successful transmission with confirmation of receipt; 8 indicates transmission timeout.
cause	string	Cause of error	
devicemedia	Object	Upload image object	

Device Media field:

Parameter	Data type	Explain	Define
deviceid	string	Equipmentid	
fileext	string	File extension	
eventcode	int	Event Code	0: Platform-issued command; 1: Scheduled action; 2: Robbery alarm trigger; 3: Collision/rollover alarm trigger; Other: Reserved
url	string	Documenturl	

Video Playback

Querymedialist_sync: Search for Playback File List

The sync interface for `action = querymedialist\_sync` requires a 30-second timeout.

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channel	short	Channel	The channel to search for starts from 1.
starttime	String	Start time	Start time: yyyy-MM-dd HH:mm:ss
endtime	String	Terminal time	End time: yyyy-MM-dd HH:mm:ss
mediatype	short	Resource Type	0: Audio & Video 1: Audio 2: Video 3: Video or Audio & Video
storetype	short	Type of memory	Memory Type 0: All storage; Type 1: Primary storage; Type 2: Disaster recovery storage
offset	int	Time zone	The time zone of the user's browser or app is set to China Standard Time (UTC+8) by default.

Playrecord Control_sync: Playback Control Synchronization

action = playrecord control_sync: The sync interface must wait for a 30-second timeout; upon successful playback, a 3-minute timer should be started, and the playback should be explicitly stopped to notify the user that the playback duration has expired. Subsequently, the playback should be explicitly stopped after 3.5 minutes to prevent unexpected playback failures for the user.

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channel	short	Channel	For channels to be replayed, start from 1.
playcontrol	short	Rewind Control	0: Start playback 1: Pause playback 2: End playback 3: Fast-forward playback 4: Keyframe fast rewind 5: Drag-and-drop playback 6: Keyframe playback
playrate	short	Play speed	Fast-forward or fast-backup multiplier: 0: Invalid; 1: 1x; 2: 2x; 3: 4x; 4: 8x; 5: 16x
playtype	String	Playback Method	For "rtmp" and "flv", it is recommended to use "flv" for web pages, and "rtmp" for apps and mini-programs.
starttime	String	Start time	Start time: yyyy-MM-dd HH:mm:ss
endtime	String	Terminal time	End time: yyyy-MM-dd HH:mm:ss
offset	int	Time zone	The time zone of the user's browser or app is set to China Standard Time (UTC+8) by default.

Download File

Data Forwarding

Forward Message

Currently, two types of forwarding are supported: forwarding of parsed JSON data and forwarding of raw packets; however, the documentation only specifies the JSON format.

Parameter	Data type	Explain	Define
devicename	String	Device name	You can change the name on the website.
deviceid	String	Equipmentid	Device ID: unique serial number
lat	double	Latitude	Latitude in WGS84 format
lon	double	Longitude	Longitude in WGS84 format
arrivedtime	long	Server reception time	utctime
updatetime	long	Update time: Use this time to sort the trajectory.	utctime
validpoistiontime	long	Final positioning time	Finally, the valid UTC timestamp (field spelling error, retained as is)
radius	double	Precision radius	Positioning radius: Unit: meters
speed	double	Velocity	Speed: unit: meters
altitude	double	Altitude	Height: meters
course	int	Angle	Angle: 0–360°
totaldistance	int	Total mileage	Total distance traveled by the server
status	long	State	It's not very useful.
strstatus	String	State description	Can be used to display status
alarm	long	Report to the police	Report to the police
stralarm	String	Alarm Description	Can be used to display alarms.
gotsrc	String	Positioning Type	Cellular WiFi GPS positioning type
rxlevel	int	Received signal strength percentage	10 40 60 80 100: this fixed value
voltagev	double	VoltageV	Voltage: V; some devices have no voltage.
voltagepercent	int	Battery level percentage	For some devices, the percentage is calculated based on the number of reports.
gpsvalidnum	int	Number of satellites	Number of satellites
iostatus	int	io state	io status, default: -1
rotatestatus	int	Forward and reverse rotation	Default: -1, 0: Unknown; 1: Forward rotation (empty load); 2: Reverse rotation (full load); 3: Stop rotation
reportmode	short	Reporting Mode	Reference: Reported Mode List
moving	int	Are you exercising?	Is the user active? 0 indicates no activity; 1 indicates active activity. The determination is based on whether the current position exceeds the previous position by more than 1 meter.
fueldata	UniFuelData	Fuel consumption information	Refer to the following fuel consumption data for details.
tempdata	SuperviseTemp	Temperature and humidity information	Refer to the following temperature and humidity data specifications.
parkduration	long	How long did you stay?	How long did it stay? Number of milliseconds
devicealarm	Object	Person to be reported	The default value is null; for a standalone alarm record, other data may be ignored, and only the alarm data format of device alarm shall be processed.

Reporting Mode

Price	Description
0x00	Scheduled reporting
0x01	Fixed-interval reporting
0x02	Upload at the inflection point
0x03	Upload of ACC status change
0x04	Once the motion has transitioned to a stationary state, transmit the final positioning point.
0x05	After reconnection following a network disconnection, report the last valid upload point prior to the disconnection.
0x06	Forced upload of GPS points during ephemeris update
0x07	Press the button to upload a location point
0x08	Report location information upon startup
0x09	Unused
0x0A	Once the device has come to a standstill, it reports its final latitude and longitude, while the timestamp is updated.
0x0B	Upload packet with latitude and longitude data via Wi-Fi
0x0C	Reporting Mode: LJDW (Immediate Positioning) command reporting
0x0D	Once the device has come to a standstill, it reports its final latitude and longitude coordinates.
0x0E	GPSDUP Upload (periodic upload during stationary state)

Forward Alarm Message

Forward alarm messages: When an alarm event occurs on the device, send a dedicated push notification.

Parameter	Data type	Explain	Define
deviceid	String	Equipmentid	Device ID: unique serial number
lat	double	Latitude	Latitude in WGS84 format
lon	double	Longitude	Longitude in WGS84 format
arrivedtime	long	Server reception time	utctime
updatetime	long	Update time: Use this time to sort the trajectory.	utctime
speed	double	Velocity	Speed: unit: meters
altitude	double	Altitude	Height: meters
course	int	Angle	Angle: 0–360°
totaldistance	int	Total mileage	Total distance traveled by the server
alarmtype	int	Alarm Type	1 2 represents standard alarm; 2 represents video.
alarm	long	Report to the police	Report to the police
stralarm	String	Alarm Description	Can be used to display alarms.
startalarmtime	long	Alarm trigger time	Some alarm events are continuous alarms, with a start and end time.
lastalarmtime	long	Final reporting time	Some alarm events are continuous alarms, with a start and end time.
alarmcount	int	Number of emergency calls	How many times has the alarm been triggered continuously?

Fuel Consumption Data

Forwarding fuel consumption data:

Parameter	Data type	Explain	Define
totalRunningAd	int	Current total fuel consumption	Unit: 1/100 L
totalNotRunningAd	int	Current total non-vehicle fuel consumption	Unit: 1/100 L
ad0	int	Fuel supply line 1	Unit: 1/100 L
ad1	int	Second fuel supply line	Unit: 1/100 L
ad2	int	Fuel flow rate 3	Unit: 1/100 L
ad3	int	Fuel level on channel 4	Unit: 1/100 L

Temperature and Humidity Data

Forward temperature and humidity data:

Parameter	Data type	Explain	Define
temp1	int	Temperature Path 1	Unit: 1/100 degree; 65535 indicates invalid.
temp2	int	Second temperature channel	Unit: 1/100 degree; 65535 indicates invalid.
temp3	int	Path 3 Temperature	Unit: 1/100 degree; 65535 indicates invalid.
temp4	int	Channel 4 Temperature	Unit: 1/100 degree; 65535 indicates invalid.
humi1	int	Path 1: Humidity	Unit: 1/10; -1 indicates invalid.
humi2	int	Path 4 humidity	Unit: 1/10; -1 indicates invalid.

Replaying of Historical Running Data

Query Historical Trajectory by Time

**

The Trajectory Data Shall Only Be Accessed When Individual Users Explicitly Request It; Automatic Server-Side Synchronization of Trajectory Data Is Strictly Prohibited. Should Such Behavior Be Detected, We Reserve the Right to Revoke API Access Permissions.

** action = querytracks: retrieve trajectories within a specified time window.

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	Example: "12345678901"
begintime	String	Start time	Start time: yyyy-MM-dd HH:mm:ss
endtime	String	Terminal time	End time: yyyy-MM-dd HH:mm:ss
timezone	int	Time zone	The time zone of the user's browser or app is set to China Standard Time (UTC+8) by default.

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
records	List	Trajectory List	

Trajectory field:

Parameter	Data type	Explain	Define
trackCount	int	How many reporting points are included?	
starttime	long	Start time of the point	
endtime	long	End time of the point	
trackid	int	The first point is the primary key of the database.	
arrivedtime	long	Time to reach the server	
updatetime	long	Updated position time after comprehensive calculation	
callat	double	Calculated latitude	
callon	double	The calculated longitude	
altitude	double	Height (m)	
radius	int	Positioning accuracy: meters	
speed	double	Speed (m)	
recorderspeed	double	Dashcam speed (meters per hour)	
totaldistance	int	Total mileage: meters	
course	int	Direction (0–360)	
status	long	Corresponding departmental standard status value	
strstatus	String	Corresponding state text description according to the departmental standard	
strstatuse	String	English description of the corresponding departmental standard status	
gotsrc	String	Location source Location type (GPS, Wi-Fi, cellular)	
rxlevel	int	Base station signal strength	
gpsvalidnum	int	gps significance	
ad0	int	Fuel Level 1	
ad1	int	Fuel Level 2	

temp1	int	Temperature 1	Unit: 1/100 degree; 65535 indicates invalid.
temp2	int	Temperature 2	Unit: 1/100 degree; 65535 indicates invalid.
temp3	int	Temperature 3	Unit: 1/100 degree; 65535 indicates invalid.
temp4	int	Temperature 4	Unit: 1/100 degree; 65535 indicates invalid.
humi1	int	Humidity: 1	
humi2	int	Humidity: 2	
reportmode	short	Reporting Type	

//0x00 Periodic Reporting
 //0x01 Fixed-interval reporting
 //0x02 Turning Point Upload
 //0x03 ACC status change upload
 //0x04 After transitioning from motion to a stationary state, transmit the final positioning point.
 //0x05 After reconnection following a network disconnection, report the last valid upload point prior to reconnection//0x06 Reporting mode: Mandatory GPS point upload upon ephemeris update//0x07 Reporting mode: Location point upload via button press
 //0x08 Reporting Mode: Report location information upon startup
 //0x09 Reporting Mode: Not in use
 //0x0A Reporting Mode: Once the device has come to a standstill, it reports its final latitude and longitude, but does not update the timestamp. //0x0B WIFI-based parsing of latitude and longitude for packet upload.
 //0x0C Reporting Mode: LJDW (Immediate Positioning) command reporting
 //0x0D Reporting Mode: The device reports the final latitude and longitude once it has come to a complete stop//0x0E Reporting Mode: GPSDUP Upload (periodic uploads while the device remains stationary)

Rearmost Position

Query Final Position

action = last position: query the last position using the device list.

Parameter	Data type	Explain	Define
username	String	The username to be queried	demo
deviceids	List	Device serial number list; if this list is empty, it indicates all devices under the account.	Example:["12345678901", "12345678902"]
lastquerypositiontime	long	Last query for location and time	On the first query, pass 0; for subsequent queries, the response will include a timestamp—please save this value and send it back to the server.

returned value:

Parameter	Data type	Explain	Define
status	int	State	0 represents success; -1 represents failure.
cause	String	State description	OK indicates success; other descriptions indicate anomalies.
lastquerypositiontime	long	Get current query location and time	Please save this so that you can send it to the server next time.
records	List	Final Position List	

Final position field:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number: globally unique	
devicetime	long	Time reported by the GPS device	
arrivedtime	long	Time to reach the server	
updatetime	long	Updated position time after comprehensive calculation	
validpoistiontime	long	Final position determination time	
callat	double	Calculated latitude	
callon	double	The calculated longitude	
altitude	double	Height (m)	
radius	int	Positioning accuracy: meters	
speed	double	Speed (m)	
course	int	Direction (0–360)	
totaldistance	int	Total mileage: meters	
totaloil	int	Total oil volume	Milliliters
totalnotrunningad	int	Total non-vehicle operating fuel consumption	Milliliters
masteroil	int	When counted separately, the first fuel tank	Milliliters
auxoil	int	When analyzed separately, the second fuel tank	Milliliters
thirdoil	int	When analyzed separately, the third fuel tank	Milliliters
fourthoil	int	When counted separately, the fourth fuel tank	Milliliters

srcad0	int	Oil level analog signal 1	
srcad1	int	Oil level analog signal 2	
srcad2	int	Oil level analog signal 3	
srcad3	int	Oil level analog signal 4	
status	long	Corresponding departmental standard status value	
strstatus	String	Corresponding state text description according to the departmental standard	
strstatusen	String	English description of the corresponding departmental standard status	
alarm	long	Corresponding industry standard alarm value	
stralarm	String	Corresponding departmental standard alarm text description	
stralarmen	String	English text description of the corresponding departmental standard alarm	
videoalarm	long	Corresponding industry standard video alarm threshold	
strvideoalarm	String	Corresponding departmental standard video alarm text description	
strvideoalarmen	String	English text description corresponding to the departmental standard video alarm	
videosignalloststatus	long	Video signal loss state	
videosignalcoverstatus	long	Video occlusion status	
videobehavior	long	Abnormal driving behavior status in video	
videofatiguedegree	long	Video fatigue level	
gotsrc	String	Location source Location type (GPS, Wi-Fi, cellular)	
rxlevel	int	Base station signal strength	
gpsvalidnum	int	gpssignificance	
exvoltage	double	External voltage	For a unit of 0.01 V, the default value is-1; a value of 0 indicates a power failure.
voltagev	double	Voltage	For a unit of 0.01 V, the default value is-1; a value of 0 indicates that power has been cut off.
voltagepercent	double	Battery level percentage	For some devices, the percentage is calculated based on the number of reports.
moving	int	Move?	Are you exercising? 0 means you are not exercising; 1 means you are exercising.
parklat	double	The final remaining latency	
parklon	double	The final lingering loner	
parktime	long	Final dwell time	
parkduration	long	How long did you stay?	
temp1	int	Temperature 1	Unit: 1/100 degree; 65535 indicates invalid.
temp2	int	Temperature 2	Unit: 1/100 degree; 65535 indicates invalid.
temp3	int	Temperature 3	Unit: 1/100 degree; 65535 indicates invalid.
temp4	int	Temperature 4	Unit: 1/100 degree; 65535 indicates invalid.

humi1	int	Humidity: 1	
humi2	int	Humidity: 2	
iostatus	int	IOstatus bit	
currentoverspeedstate	int	1 indicates that speeding is occurring; 2 indicates that no speeding is occurring.	
rotatestatus	short	Forward/Reverse Direction (0: Unknown; 1: Forward (empty load); 2: Reverse (full load); 3: Stopped)	
loadstatus	short	Load status: 0x00 – Empty; 0x01 – Half-load; 0x02 – Overload; 0x03 – Full load; 0x04 – Loading; 0x05 – Unloading	
weight	long	Weight unit: 0.1 kg	
srcweightad0	int	For the AD0 in the load-bearing module, only one channel is currently supported.	
reportmode	short	Reporting Type	

//0x00 Periodic Reporting
 //0x01 Fixed-interval reporting
 //0x02 Turning Point Upload
 //0x03 ACC status change upload
 //0x04 After transitioning from motion to a stationary state, transmit the final positioning point.
 //0x05 After reconnection following a network disconnection, report the last valid upload point prior to reconnection//0x06 Reporting mode: Mandatory GPS point upload upon ephemeris update//0x07 Reporting mode: Location point upload via button press
 //0x08 Reporting Mode: Report location information upon startup
 //0x09 Reporting Mode: Not in use
 //0x0A Reporting Mode: Once the device has come to a standstill, it reports its final latitude and longitude, but does not update the timestamp. //0x0B WIFI-based parsing of latitude and longitude for packet upload.
 //0x0C Reporting Mode: LJDW (Immediate Positioning) command reporting
 //0x0D Reporting Mode: The device reports the final latitude and longitude once it has come to a complete stop//0x0E Reporting Mode: GPSDUP Upload (periodic uploads while the device remains stationary)

Real-Time Driving Statistics Detailed Report

action = report mileage detail report

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
startday	String	Date commenced	Start Date: yyyy-MM-dd
endday	String	Deadline	End date: yyyy-MM-dd
offset	int	Time zone	The default is China's time zone, which is UTC+8.

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
records	List	Detailed Mileage List	Retrieve the first record on the query date.

Detailed mileage list:

Parameter	Data type	Explain	Define
addoil	int	Fuel charge	Unit: 1/100 L
avgspeed	float	Average speed: meters per hour	
begindis	int	Starting mileage: Unit: meters	
beginoil	int	Initial fuel quantity	Unit: 1/100 L
enddis	int	Total distance: meters	
endoil	int	End fuel level	Unit: 1/100 L
endtime	long	End time: milliseconds	
idleoil	int	Idle fuel flow	Unit: 1/100 L
leakoil	int	Oil leakage	Unit: 1/100 L
oilper100km	float	Combined fuel consumption per 100 km	L/KM
runoilper100km	float	Fuel consumption per 100 km	L/KM
oilperhour	float	Fuel consumption per hour	L/H
starttime	long	Start time: milliseconds	
statisticsday	string	Statistical Date	
totalacc	long	Total duration of ACC in milliseconds	
totaldistance	int	Total mileage over this period (unit: meters)	

Offline Reports

action = report offline: query the last known location using the device list.

Parameter	Data type	Explain	Define
deviceids	List	Device serial number list; if this list is empty, it indicates all devices under the account.	
offlinetimeseconds	int	Offline duration	Units per second

returned value:

Parameter	Data type	Explain	Define
status	int	State	0 represents success; -1 represents failure.
cause	String	State description	OK indicates success; other descriptions indicate anomalies.
addressmap	Object	Address object	Retrieve an address using a key composed of latitude and longitude.
records	List	Offline device information	

Equipment List

Query Device List

action = querymonitor list: query the device list

Parameter	Data type	Explain	Define
username	String	Login username	

returned value:

Parameter	Data type	Explain	Define
status	int	State	0 represents success; -1 represents failure.
cause	String	State description	OK indicates success; other descriptions indicate anomalies.
groups	List	Grouped List	

Grouping field:

Parameter	Data type	Explain	Define
groupid	int	Group ID	
groupname	String	Group Name	
remark	String	Group Notes	
devices	List	Equipment List	

device field:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number: globally unique	
devicename	String	Device name	
devicetype	int	Device type	
simnum	String	simnumber	
overduetime	long	Deadline	
expirenotifytime	long	Maturity Notice Date	
remark	String	Remarks	
creator	String	Created by which user, so that groups can be quickly and easily located?	
videochannelcount	int	How many cameras are set as the default?	
lastactivetime	long	Last online time	
isfree	int	1. Normal Use 2. Currently Being Tested 3. Disabled 4. Device Expiry Date Reached 5. Device Expired	
allowedit	int	0 means that secondary users are not permitted to edit; 1 means that editing is permitted.	
icon	int	By default, it is set to the small car icon.	
stared	int	Followed: 0 means not followed; 1 means followed	
loginname	String	Login Name	
offlinedelay	int	What is the default delay in minutes for offline notifications?	

Query Device Type

action = querydevicetypeownerbyuser: Query the list of device types by owner

Parameter	Data type	Explain	Define
Not have	Not have	Not have	Not have

returned value:

Parameter	Data type	Explain	Define
status	int	State	0 represents success; -1 represents failure.
cause	String	State description	OK indicates success; other descriptions indicate anomalies.
devicetypes	List	List of Equipment Types	

Equipment Type field:

Parameter	Data type	Explain	Define
devicetypeid	int	Device Type ID: globally unique	
functionslong	int	Included device features	
remark	String	Chinese Notes	
remarken	String	English Notes	
typename	String	Equipment Type Name	
typecode	String	Device typecode	
createtime	int	Creation time	
defaultofflinedelay	int	Default offline latency	
enabled	int	Use?	1 Use 0 Disable
supportmodels	String		
price	int	Price	Annual fee
price3	int	Price	3-year fee
price5	int	Price	5-year fee
price10	int	Price	10-year fee
supportmodels	String	Supported device models	

Query Report

Check Itinerary

action = querytrips Stoppoint: A new stoppoint is initiated when the vehicle remains at the same location for a specified duration (default: 3 minutes). Trip segment: A segment of the journey is defined as the distance between two consecutive stoppoints. Driving duration: The cumulative driving time across all journey segments. Stop duration: The cumulative time spent stationary at any single location for over 3 minutes. Operating duration: The cumulative time during which the vehicle is started. Idling duration: The cumulative time during which the vehicle is started but remains stationary.

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
begintime	String	Start time	Start time: yyyy-MM-dd HH:mm:ss
endtime	String	Terminal time	End time: yyyy-MM-dd HH:mm:ss
timezone	int	Time zone	The default is China's time zone, which is UTC+8.

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
totalmaxspeed	float	Maximum speed: m/h	
totaldistance	int	Total mileage of this segment: ____ meters	
totalaveragespeed	float	Average speed: meters per hour	
totaltriptime	long	Total time for this segment in milliseconds	
totaltrips	List	Itinerary	

Itinerary:

Parameter	Data type	Explain	Define
averagespeed	float	Average speed: meters per hour	
maxspeed	float	Maximum speed: m/h	
elat	float	End latitude	
elon	float	End longitude	
endtime	long	End time: milliseconds	
slat	float	Starting latitude	
slon	float	Starting longitude	
starttime	long	Start time: milliseconds	
parktime	long	Parking duration: milliseconds	
tripdistance	int	Total mileage of this segment: ____ meters	
triptime	long	Total time for this segment in milliseconds	

Query Stopover Point

action = report parkdetailbytime: a stay report generated based on stay duration

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
beginntime	String	Start time	Start time: yyyy-MM-dd HH:mm:ss
endtime	String	Terminal time	End time: yyyy-MM-dd HH:mm:ss
timezone	int	Time zone	The default is China's time zone, which is UTC+8.
interval	int	Margin	The minimum duration before being classified as a dwell point: default is 5 minutes

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
records	List	Stop Points List	

List of stop points: records

Parameter	Data type	Explain	Define
starttime	int	Initial dwell time	Time stamp
endtime	int	End stay duration	Time stamp
callon	double	Longitude	wgs84 coordinate
callat	double	Latitude	wgs84 coordinate
updatetime	int	Refresh time	Time stamp
address	String	Current Address	
validpoistiontime	long	Final position determination time	
altitude	double	Height (m)	
radius	int	Positioning accuracy: meters	
durationidle	int	Idling duration	Millisecond value
speed	double	Speed (m)	
course	int	Direction (0–360)	
totaldistance	int	Total mileage: meters	
startdistance	int	Starting mileage: meters	
enddistance	int	Total distance covered: meters	
totaloil	int	Total oil volume	Milliliters
totalnotrunningad	int	Total non-vehicle operating fuel consumption	Milliliters
masteroil	int	When counted separately, the first fuel tank	Milliliters
auxoil	int	When analyzed separately, the second fuel tank	Milliliters
thirdoil	int	When analyzed separately, the third fuel tank	Milliliters
fourthoil	int	When counted separately, the fourth fuel tank	Milliliters
srcad0	int	Oil level analog signal 1	
srcad1	int	Oil level analog signal 2	
srcad2	int	Oil level analog signal 3	
srcad3	int	Oil level analog signal 4	

status	long	Corresponding departmental standard status value	
strstatus	String	Corresponding state text description according to the departmental standard	
strstatusen	String	English description of the corresponding departmental standard status	
alarm	long	Corresponding industry standard alarm value	
stralarm	String	Corresponding departmental standard alarm text description	
stralarmsen	String	English text description of the corresponding departmental standard alarm	
videoalarm	long	Corresponding industry standard video alarm threshold	
gotsrc	String	Location source Location type (GPS, Wi-Fi, cellular)	
rxlevel	int	Base station signal strength	
gpsvalidnum	int	gpssignificance	
exvoltage	double	External voltage	For a unit of 0.01 V, the default value is 1; a value of 0 indicates that power has been cut off.
voltagev	double	Voltage	For a unit of 0.01 V, the default value is 1; a value of 0 indicates that power has been cut off.
temp1	int	Temperature 1	Unit: 1/100 degree; 65535 indicates invalid.
temp2	int	Temperature 2	Unit: 1/100 degree; 65535 indicates invalid.
temp3	int	Temperature 3	Unit: 1/100 degree; 65535 indicates invalid.
temp4	int	Temperature 4	Unit: 1/100 degree; 65535 indicates invalid.
humi1	int	Humidity: 1	
humi2	int	Humidity: 2	

ACC Report (Ignition Report)

action = report accsbytime: generate a report based on the records of the device's ACC ignition and shutdown events.

Parameter	Data type	Explain	Define
deviceids	List	Device Serial Number List	
starttime	String	Start time	Start time: yyyy-MM-dd HH:mm:ss
endtime	String	Terminal time	End time: yyyy-MM-dd HH:mm:ss
offset	int	Time zone	The default is China's time zone, which is UTC+8.

returned value:

Parameter	Data type	Explain	Define
status	int	Query Status	0 indicates success; all other values indicate failure.
cause	String	Explanation of query error causes	OK indicates success; other values indicate the reason for failure.
records	List	Query List	For detailed information, refer to the field descriptions in the list.

Field description for the list:

Parameter	Data type	Explain	Define
accstateid	String	The unique identifier of the record uniquely identifies that record.	
accstate	int	acc state	0 No, 2 contacts, 3 poles
begintime	long	Start Time: milliseconds	
endtime	long	End Time: milliseconds	
slat	float	Starting latitude	Seconds, Minutes, Hours
slon	float	Starting longitude	Seconds, Minutes, Hours
elat	float	End latitude	Seconds, Minutes, Hours
elon	float	End longitude	Seconds, Minutes, Hours

Check-in Report (Clock-in Records)

action = report check: retrieve active check-in records of the device; requires device support.

Parameter	Data type	Explain	Define
devices	List	Device Serial Number List	
startday	String	Date commenced	Format: yyyy-MM-dd
endday	String	Deadline	Format: yyyy-MM-dd
offset	int	Time zone	The default is China's time zone, which is UTC+8.
checktype	int	Check-in Type	0: All 1: Check In 2: Check Out

returned value:

Parameter	Data type	Explain	Define
status	int	0: Success Other Errors	
cause	String	Misdescription	
records	List	List of check-in records for each device	

Check-in and attendance record list:

Parameter	Data type	Explain	Define
deviceid	String	Equipmentid	
records	List	Check-in Details List	

Details list of check-in records: Please refer to the [Alarm Report](#) for alarm records.

Alarm Log

action = generate alarm report: a report generated from device alarm information

Parameter	Data type	Explain	Define
devices	List	Device Serial Number List	
startday	String	Date commenced	Format: yyyy-MM-dd
endday	String	Deadline	Format: yyyy-MM-dd
offset	int	Time zone	The default is China's time zone, which is UTC+8.
needalarm	String	Required alarm types	0 ~ Alarm type at position 63

returned value:

Parameter	Data type	Explain	Define
status	int	Query Status	0 indicates success; all other values indicate failure.
cause	String	Explanation of query error causes	OK indicates success; other values indicate the reason for failure.
alarmrecords	List	Query List	For detailed information, refer to the field descriptions in the list.

Field description for the list:

Parameter	Data type	Explain	Define
devicealarmid	String	The unique identifier of the record uniquely identifies that record.	
aggregate	int	Enable aggregated alarms?	0 No:1 Yes:
alarm	long	Alarm Details	
alarmbitsstr	String	Alarm Details	0 ~ Alarm type at position 63
alarmcount	int	Number of emergency calls	For aggregated alarm types, the number of occurrences will be accumulated.
alarmtype	int	Alarm Method	1 2 represents standard alarm; 2 represents video.
alt	float	Above sea level	Unit: meters
arrivedtime	long	Arrival time	UTC milliseconds
course	int	Angle	0 ~ 360 degrees
deviceid	String	Equipmentid	
devicetime	long	Equipment Time	UTC milliseconds
disposecontent	String	Process the alarm content	Manually completed handling recommendations
disposeperson	String	Handle alert account	
disposestatus	int	Processing Status	0 Unprocessed: 1 Processed: 1
disposetime	long	Handling time	UTC milliseconds
disposeway	String	Where was it processed?	Not currently in use
lastalarmtime	long	Final reporting time	UTC milliseconds
lat	float	End latitude	Degree
lon	float	End longitude	Degree
mileage	int	Maximum continuous driving distance	Unit: meters
oil	int	Total fuel consumption	Unit: 1/100 L
speed	float	Velocity	Unit: m/h
startalarmtime	long	Alarm trigger time	UTC milliseconds
stralarm	String	Text description of the police report	Defaulting to Chinese

stralarmen	String	English text description of the police report	
temperature	float	Temperature	1/100 degree
totalmileage	int	Total mileage	Unit: meters
username	String	Account associated with the device	Unit: meters

FOFEN Team

Daily Fuel Consumption

action = report oildaily: View daily fuel consumption details

Parameter	Data type	Explain	Define
devices	List	Device serial number	Example ["13612345678","13612345679"]
startday	String	Date commenced	Start Date: yyyy-MM-dd
endday	String	Deadline	End date: yyyy-MM-dd
offset	int	Time zone	The default is China's time zone, which is UTC+8.

returned value:

Parameter	Data type	Explain	Define
status	int	Status code 0 indicates success.	
cause	String	Status Description	
records	List	Device Log List	

Device Log List:

Parameter	Data type	Explain	Define
deviceid	Equipmentid		
avgoilper100km	float	Average combined fuel consumption: L/100 km	27.11
avgoilperhour	float	Average fuel consumption: L/h	14.41
avgrunoilper100km	float	Average fuel consumption: L/100 km	26.11
currenttotaloil	int	Current total fuel quantity	1/100L
totalacc	long	Total ignition duration: milliseconds	
totalidle	long	Total idle duration: milliseconds	
totalidleoil	int	Total idle fuel consumption	1/100L
records	List	Daily fuel consumption breakdown	

Daily detailed list:

Parameter	Data type	Explain	Define
addnotrunningad	int	Non-vehicle fuel consumption	1/100L
addoil	int	Fuel charge	1/100L
avgspeed	float	Average speed	Kilometers per hour
begindis	int	Starting Mileage	Mi
beginnotrunningad	int	Start non-driving fuel consumption	1/100L
avgoilper100km	float	Average combined fuel consumption: L/100 km	27.11
avgoilperhour	float	Average fuel consumption: L/h	14.41
avgrunoilper100km	float	Average fuel consumption: L/100 km	26.11
currenttotaloil	int	Current total fuel quantity	1/100L
totalacc	long	Total ignition duration: milliseconds	
totalidle	long	Total idle duration: milliseconds	
totalidleoil	int	Total idle fuel consumption	1/100L

Time-Based Fuel Consumption

action = report oiltime: Query fuel consumption details by time

Parameter	Data type	Explain	Define
devices	List	Device serial number	Example ["13612345678","13612345679"]
startday	String	Date commenced	Start Date: yyyy-MM-dd
endday	String	Deadline	End date: yyyy-MM-dd
offset	int	Time zone	The default is China's time zone, which is UTC+8.

returned value:

Parameter	Data type	Explain	Define
status	int	Status code 0 indicates success.	
cause	String	Status Description	
records	List	Device Log List	

Device Log List:

Parameter	Data type	Explain	Define
records	List	Trajectory List	

Parameter	Data type	Explain	Define
deviceid	String	Device serial number: globally unique	
devicetime	long	Time reported by the GPS device	
arrivedtime	long	Time to reach the server	
updatetime	long	Updated position time after comprehensive calculation	
validpoistiontime	long	Final position determination time	
callat	double	Calculated latitude	
callon	double	The calculated longitude	
altitude	double	Height (m)	
radius	int	Positioning accuracy: meters	
speed	double	Speed (m)	
course	int	Direction (0–360)	
totaldistance	int	Total mileage: meters	
totaloil	int	Total oil volume	Milliliters
totalnotrunningand	int	Total non-vehicle operating fuel consumption	Milliliters
masteroil	int	When counted separately, the first fuel tank	Milliliters
auxoil	int	When analyzed separately, the second fuel tank	Milliliters
thirdoil	int	When analyzed separately, the third fuel tank	Milliliters
fourthoil	int	When counted separately, the fourth fuel tank	Milliliters
srcad0	int	Oil level analog signal 1	

srcad1	int	Oil level analog signal 2	
srcad2	int	Oil level analog signal 3	
srcad3	int	Oil level analog signal 4	
status	long	Corresponding departmental standard status value	
strstatus	String	Corresponding state text description according to the departmental standard	
strstatusen	String	English description of the corresponding departmental standard status	
alarm	long	Corresponding industry standard alarm value	
stralarm	String	Corresponding departmental standard alarm text description	
stralarmen	String	English text description of the corresponding departmental standard alarm	
videoalarm	long	Corresponding industry standard video alarm threshold	
strvideoalarm	String	Corresponding departmental standard video alarm text description	
strvideoalarmen	String	English text description corresponding to the departmental standard video alarm	
videosignalloststatus	long	Video signal loss state	
videosignalcoverstatus	long	Video occlusion status	
videobehavior	long	Abnormal driving behavior status in video	
videofatiguedegree	long	Video fatigue level	
gotsrc	String	Location source Location type (GPS, Wi-Fi, cellular)	
rxlevel	int	Base station signal strength	
gpsvalidnum	int	gpssignificance	
exvoltage	double	External voltage	For a unit of 0.01 V, the default value is -1; a value of 0 indicates that power has been cut off.
voltagev	double	Voltage	For a unit of 0.01 V, the default value is -1; a value of 0 indicates that power has been cut off.
voltagepercent	double	Battery level percentage	For some devices, the percentage is calculated based on the number of reports.
moving	int	Move?	Are you exercising? 0 means you are not exercising; 1 means you are exercising.
parklat	double	The final remaining latency	
parklon	double	The final lingering loner	
parktime	long	Final dwell time	
parkduration	long	How long did you stay?	
temp1	int	Temperature 1	Unit: 1/100 degree; 65535 indicates invalid.
temp2	int	Temperature 2	Unit: 1/100 degree; 65535 indicates invalid.
temp3	int	Temperature 3	Unit: 1/100 degree; 65535 indicates invalid.
temp4	int	Temperature 4	Unit: 1/100 degree; 65535 indicates invalid.
humi1	int	Humidity: 1	

humi2	int	Humidity: 2	
iostatus	int	IOstatus bit	
currentoverspeedstate	int	1 indicates that speeding is occurring; 2 indicates that no speeding is occurring.	
rotatestatus	short	Forward/Reverse Direction (0: Unknown; 1: Forward (empty load); 2: Reverse (full load); 3: Stopped)	
loadstatus	short	Load status: 0x00 – Empty; 0x01 – Half-load; 0x02 – Overload; 0x03 – Full load; 0x04 – Loading; 0x05 – Unloading	
weight	long	Weight unit: 0.1 kg	
srcweightad0	int	For the AD0 in the load-bearing module, only one channel is currently supported.	
reportmode	short	Reporting Type	

Check for Oil Leakage

action = report oil record: daily query of fuel leakage details

Parameter	Data type	Explain	Define
devices	List	Device serial number	Example ["13612345678", "13612345679"]
startday	String	Date commenced	Start Date: yyyy-MM-dd
endday	String	Deadline	End date: yyyy-MM-dd
offset	int	Time zone	The default is China's time zone, which is UTC+8.
oilindex	int	Oil-way	0 There is always one oil line 1 2 Oil Circuit 2 3 Oil Circuit 3 4 Oil Circuit 4 99 Total non-operating fuel oil
oilstate	int	Oil leak condition	1 Refuel-1: Oil Leak View All (99)

returned value:

Parameter	Data type	Explain	Define
status	int	Status code 0 indicates success.	
cause	String	Status Description	
records	List	Oil Leak Record List	
addressmap	Object	Corresponding address	

records :

Parameter	Data type	Explain	Define
begintime	int	Start time	
endtime	int	Terminal time	
soil	int	Initial fuel quantity	
eoil	int	End fuel level	
oilstate	int	Oil leak condition	1 Refuel-1 oil leak
oilIndex	int	Oil-way	0 There is always one oil line 1 2 Oil Circuit 2 3 Oil Circuit 3 4 Oil Circuit 4 99 Total non-operating fuel oil
maunedit	int	Has this been manually edited?	0 No edits made
slon	number	Starting longitude	
slat	number	Starting latitude	
elon	number	End longitude	
elat	number	End latitude	

Query Monthly Daily Mileage

action = report mileage detail: query monthly mileage by date

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
startday	String	Start time	Start Date: yyyy-MM-dd
endday	String	Terminal time	End date: yyyy-MM-dd
offset	int	Time zone	The default is China's time zone, which is UTC+8.
forcetodaydetail	bool	Check today?	Give tacit consent to false

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
records	Array	Return record	
status	int	Return state	0 success

records field:

Parameter	Data type	Explain	Define
statisticsday	String	Date	
maxtotaldistance	int	Maximum distance traveled on that day	
mintotaldistance	int	Minimum mileage of the day	
totaldistance	int	Actual service life	
starttime	int	Start time	
endtime	int	Terminal time	
avgspeed	int	Average speed	Unit: meters
totalacc	int	Ignition duration	Millisecond value

Query Fence Alarm

action = reportgeofence: query geofence alerts

Parameter	Data type	Explain	Define
devices	Array	Array	Equipment Number
startday	String	Start time	Start Date: yyyy-MM-dd
endday	String	Terminal time	End date: yyyy-MM-dd
timezone	int	Time zone	The default is China's time zone, which is UTC+8.

returned value:

Parameter	Data type	Explain	Define
status	int	Return state	0 success
cause	String	Cause	
records	array	Returned alarm records	

Alarm Log:

Parameter	Data type	Explain	Define
alarm	int	Alarm Type	
lastalarmtime	int	Final reporting time	
lastruntime	int	Final runtime	
callon	double	Longitude	wgs84
callat	double	Latitude	wgs84
stralarm	String	Chinese alarm description	
stralarmen	String	English alarm description	

Query Active Safety

action = queryactivesafetytracks Query active safety features

Parameter	Data type	Explain	Define
deviceids	Array	Array	Equipment Number
beginntime	String	Start time	Start time: yyyy-MM-dd hh:mm:ss
endtime	String	Terminal time	End time: yyyy-MM-dd hh:mm:ss
timezone	int	Time zone	The default is China's time zone, which is UTC+8.
needaddress	int	Return address	1 Return 0 Do not return

returned value:

Parameter	Data type	Explain	Define
status	int	Return state	0 success
cause	String	Cause	
records	array	Returned alarm records	
addressmap	Object	Return address	
playrootpath	String	Image URL	

records :

Field	Data type	Explain	Define
alarmtype	int	Alarm Type	
alarmlevel	int	Alarm Level	
alarmevent	int	Incident reported to the police	
lat	int	wgs84 coordinate	Latitude
lon	int	wgs84 coordinate	Longitude
speed	int	Velocity	Unit: meters
alarmtime	int	Time stamp	Alarm time
updatetime	int	Time stamp	Refresh time
attachstatus1	int	Has it been uploaded?	0 Not uploaded: 1 Uploaded: 1
attachstatus2	int	Has it been uploaded?	0 Not uploaded: 1 Uploaded: 1
attachstatus3	int	Has it been uploaded?	0 Not uploaded: 1 Uploaded: 1
attachstatus4	int	Has it been uploaded?	0 Not uploaded: 1 Uploaded: 1
attachstatus5	int	Has it been uploaded?	0 Not uploaded: 1 Uploaded: 1
attachfile1	String	Alarm video or images	playroot path + attachfile 1 = full path
attachfile2	String	Alarm video or image	playroot path + attachfile 2 = full path
attachfile3	String	Alarm video or image	playroot path + attachfile 3 = full path
attachfile4	String	Alarm video or images	playroot path + attachfile 4 = full path
attachfile5	String	Alarm video or images	playroot path + attachfile 5 = full path
attachfiletype1	int	Type	2 0 videos, 0 images
attachfiletype2	int	Type	2 0 videos, 0 images
attachfiletype3	int	Type	2 0 videos, 0 images
attachfiletype4	int	Type	2 0 videos, 0 images

attachfiletype5	int	Type	2 0 videos, 0 images
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FOFEN Team

Issue Instructions

Issue Voice Broadcast

action = send cmd: send a command

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
cmdcode	String	Instruction code	"TYPE_SERVER_PUSH_TTS"
params	List	Instruction Content	"Test distribution content"

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
status	int	Reply status	
cause	String	Error content	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Lock Vehicle (cut Power and Fuel)

action = send cmd: Send command to GT06 protocol device:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
cmdcode	String	Instruction code	"TYPE_SERVER_SET_RELAY_OIL"
params	List	Instruction Content	["1"]
cmdpwd	String	Password: Use a static password	"zhuyi"

Example: {"device_id": "868035043015161", "device_type": 26, "cmd_code": "TYPE_SERVER_SET_RELAY_OIL", "params":["1"], "state": -1, "cmd_pwd": "zhuyi"}

Ministry Standard 808 compliant equipment:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
devicetype	int	Device type	When querying the device list, the response indicates that Part Standard 808 is 1.
cmdcode	String	Instruction code	"TYPE_SERVER_LOCK_CAR"
params	List	Instruction Content	[]
cmdpwd	String	Password: Use a static password	"zhuyi"

Example: {"device_id": "00006113323", "device_type": 1, "cmd_code": "TYPE_SERVER_LOCK_CAR", "params":[][], "state " :-1, "cmd_pwd": "zhuyi"}

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
status	int	Reply status	
cause	String	Error content	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Unlock (Restore Hybrid Mode)

action = send cmd: Send command to GT06 protocol device:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
cmdcode	String	Instruction code	"TYPE_SERVER_SET_RELAY_OIL"
params	List	Instruction Content	["0"]
cmdpwd	String	Password: Use a static password	"zhuyi"

Example: {"device_id": "868035043015161", "device_type": 26, "cmd_code": "TYPE_SERVER_SET_RELAY_OIL", "params":["0"], "state": -1, "cmd_pwd": "zhuyi"}

Ministry Standard 808 compliant equipment:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
devicetype	int	Device type	When querying the device list, the response indicates that Part Standard 808 is 1.
cmdcode	String	Instruction code	"TYPE_SERVER_UNLOCK_CAR"
params	List	Instruction Content	[]
cmdpwd	String	Password: Use a static password	"zhuyi"

Example: {"device_id": "00006113323", "device_type": 1, "cmd_code": "TYPE_SERVER_UNLOCK_CAR", "params":[], "state": -1, "cmd_pwd": "zhuyi"}

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
status	int	Reply status	
cause	String	Error content	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Issue Speed Limit Settings

action = send cmd: send a command

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
cmdcode	String	Instruction code	"TYPE_SERVER_SET_SPEED_LIMIT"
params	List	["100", "35"]	Example: exceeds 100 km for 35 seconds

returned value:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
status	int	Reply status	
cause	String	Error content	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Batch Issuance of Commands

action = send batch operation command

Parameter	Data type	Explain	Define
action	String	action	Enter 'send command' here.
cmdcode	String	Instruction code	"TYPE_SERVER_SET_SPEED_LIMIT"
params	List	["100", "35"]	Example: exceeds 100 km for 35 seconds
devicetype	int	Device type	
deviceids	List	Devices for batch issuance of commands	Example ['11', '22']

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 successes
successrecords		Successful equipment	Successful equipment recording
errorrecords		Failed device	Failed device records
fail	int	Number of failures	Number of failures
success	int	Number of successes	Number of successes
total	int	Total number	Total number

Batch Management

Batch Issuance of Commands

action = send batch operation command

Parameter	Data type	Explain	Define
action	String	sendcommand	Internal operation types for batch operations
deviceids	List	Device Serial Number List	Example ["13100011111", "13100011112"]
devicetype	int	Device type	When querying the device list, the response will include "808: device in use".
cmdcode	String	Instruction code	"TYPE_SERVER_SET_SPEED_LIMIT"
params	List	["100", "35"]	Example: exceeds 100 km for 35 seconds

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	
cause	String	Error content	
errorrecords	List	Generate error list	
total	int	Total quantity	
success	int	Number of successful issuances	
fail	int	Number of errors issued	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Electronic Fence

Query Fence List

action = querygeosystem records: query the fence list

Parameter	Data type	Explain	Define
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returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	
categorys	List	Grouping object	

Grouping objects:

Parameter	Data type	Explain	Define
categoryid	int	Divide into groupsid	
categoryuuid	String	Divide into groupsuuid	
name	String	Group Name	
remark	String	Remarks	
creator	String	Creator	
records	List	Fence List	

For the fenced object, [please refer to "Adding Fencing"](#)

Add Fence Grouping

action = addgeosystemcategory Add fence category

Parameter	Data type	Explain	Define
name	String	Group Name	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	
record	Object	Grouping object	

Grouping objects:

Parameter	Data type	Explain	Define
categoryid	int	Divide into groupsid	
categoryuuid	String	Divide into groupsuuid	
name	String	Group Name	
remark	String	Remarks	
creator	String	Creator	

Remove Fence Grouping

action = delgeosystemcategory Remove fence grouping

Parameter	Data type	Explain	Define
categoryid	int	Divide into groupsid	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	

Add a Fence

action = addgeosystem record: Add fence:

Parameter	Data type	Explain	Define
name	String	Fence Name	
categoryid	int	Divide into groupsid	
type	int	1: Circle; 2: Polygon; 3: Region; 5: Line	
useas	int	Purpose: 0-Fence entry/exit; 1-Number of passes	
triggerevent	int	0 Platform Reminder; 11-Exit fence, power/fuel cut; 21-Enter fence, power/fuel cut; 31-Exit fence, power/fuel cut, then re-enter, power/fuel restored; 41-Exit fence, power/fuel restored, then re-enter, power/fuel cut.	
lat1	double	wgs84 latitude	
lon1	double	WGS84 longitude	
radius1	int	Radius unit: meters	
points2	list	Item List	
provinceindex3	int	Province ID	
cityindex3	int	Cityid	
areaindex3	int	Region id	
provincestr3	String	Province Name	
citystr3	String	City Name	
areastr3	String	Region Name	
adcode3	String	Region code	
distance5	int	By how many meters has the line shifted?	
alarmtype5	int	Alarm Types: 1. Continuous alarm for line deviation; 2. Continuous alarm for entering the line; 3. Single alarm for line deviation; 4. Single alarm for entering the line.	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	
record	Object	Fenced object	

Grouping objects:

Parameter	Data type	Explain	Define
geosystemrecordid	int	Fence ID	
categoryid	int	Divide into groupsid	
georecorduuid	String	Fence UU ID	
name	String	Group Name	
type	int	1 represents a circle	
useas	int	Act on	
triggerevent	int	Trigger event	
remark	String	Remarks	
creator	String	Creator	

Remove Fence

action = delgeosystem record: delete fence

Parameter	Data type	Explain	Define
categoryid	int	Divide into groupsid	
geosystemrecordid	int	Fence ID	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	

FOFEN Team

Single-Device Fence

Query Fence List

action = queryallgeo records: query the fence list

Parameter	Data type	Explain	Define
deviceid	String	Device serial number ID	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	
deviceid	String	Device serial number ID	
records	List	Fence List	If fence type = 1, it indicates a simple fence.

For the fenced object, [please refer to "Adding Fencing"](#)

Add a Fence

action = addgeo record: Add fence:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number ID	
type	int	1 represents a circle	
lat1	double	wgs84 latitude	
lon1	double	WGS84 longitude	
radius1	int	Radius unit: meters	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	
record	Objct	Fenced object	

For the fenced object, [please refer to "Adding Fencing"](#)

Remove Fence

action = deletegeo record Delete fence:

Parameter	Data type	Explain	Define
georecordid	String	Fence ID	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	

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Edit Fence

action = editgeo record Edit fence:

Parameter	Data type	Explain	Define
deviceid	String	Device serial number ID	
georecordid	String	Fence ID	
type	int	1 represents a circle	
lat1	double	wgs84 latitude	
lon1	double	WGS84 longitude	
radius1	int	Radius unit: meters	

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Represents success
cause	String	Error content	
record	Objct	Fenced object	

For the fenced object, please refer to "Adding Fencing"

Add Device

Add Device

action = adddevice Add device

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
devicename	String	Device name	
devicetype	int	Device type	
creator	String	Add Account	Which account should this be added to?
groupid	int	Divide into groupsID	Group ID
calmileageway	int	Mileage Calculation	0 Automatic Device 1 Platform 2
deviceenable	int	Is the device disabled?	1: Available 0: Disabled
loginenable	int	Is the device allowed to log in?	1: Allowed; 0: Not allowed
timezone	int	Time zone	The default is China's time zone, which is UTC+8.

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
device	Object	Facility information	
status	int	Return state	0 Success 1 Device already exists

Remove Device

action = delete device

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes

Editing Equipment

action = editdevicesimple Edit devices

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
devicename	String	Device name	
loginname	String	Login Name	You can log in using this name.
remark	String	Remarks	
icon	int	Device icon	Between 0 and 16
simnum	String	SIM card number	
needloctype	int	Positioning Type	1 (GPS) 2 (Base Station) 7 (GPS Base Station & Wi-Fi)

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes

Query Device Type

action = querydevicetypeownerbyuser Add device

Parameter	Data type	Explain	Define
No parameters	Object	Pass a null object	

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes
devicetypes	Array	Return device type	0 successes

device type:

Parameter	Data type	Explain	Define
defaultidlength	int	Default device length	
defaultofflinedelay	int	After how much time has no report been submitted will it be classified as offline?	
devicetypeid	int	Device typeid	
functions	int		
functionslong	int	Device Features	
price	int	Annual renewal price	
price3	int	3-year renewal price	
price5	int	3-year renewal price	
price10	int	3-year renewal price	
remark	String	Chinese Notes	
remarken	String	English notes	
typecode	String	code	
typename	String	Type Name	

Account Management

Create an Account

action = add user

Parameter	Data type	Explain	Define
creator	String	Creator	Who created this?
username	String	User name	The username to be created
usertype	int	User Type	1. System Administrator
password	String	Password	Computed using MD5
multilogin	int	Multi-factor login	1: Yes; 0: No

User Type:

Parameter	Data type	Explain	Define
1	int	System administrator	
2	int	Level 1 Administrator	
3	int	Level 2 Administrator	
4	int	Level 3 Administrator	
11	int	Regular surveillance officer	
99	int	Equipment	Device logged in

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes

Delete Account

action = delete user

Parameter	Data type	Explain	Define
usernames	Array	[Account Name 1, Account Name 2]	

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes

Query User Details

action = queryuserdetail: Query user details

Parameter	Data type	Explain	Define
username	String	User name	

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes
username	String	User name	
creator	String	Creator	
showname	String	Display Name	
usertype	int	User Type	
multilogin	int	Multi-factor login	1: Yes / 0: No
companyname	String	Corporate name	
companyaddr	String	Company Address	
cardname	String	Contacts	
email	String	Postbox	
wechat	String	Wechat	
phone	String	Telephone	
qq	String	qq	

Edit User Details

action = edit user: Edit user details

Parameter	Data type	Explain	Define
username	String	User name	
creator	String	Creator	
showname	String	Display Name	
usertype	int	User Type	
multilogin	int	Multi-factor login	1: Yes / 0: No
companyname	String	Corporate name	
companyaddr	String	Company Address	
cardname	String	Contacts	
email	String	Postbox	
wechat	String	Wechat	
phone	String	Telephone	
qq	String	qq	

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes

Renewal Management

Platform Equipment Renewal

action = chargeddevices

Parameter	Data type	Explain	Define
deviceids	Array	Device serial number	[Equipment No.1, Equipment No.2]
years	int	How many years should the subscription be renewed for?	
showfreelife	int	Is it free for life?	0: Not lifetime; 1: Lifetime free
overduetime	int	Platform expiration date	Fillnull
syncexpirenotifytime	int	Synchronization device expiration date	1 Synchronized 0 Asynchronous

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes
consumepoints	int	Number of gold beans consumed	
remainpoints	int	Number of remaining golden beans	
successcount	int	Number of successes	
devices	Array	Device information	

Equipment Expiration Date

action = batch operate: batch operation of the device

Parameter	Data type	Explain	Define
action	String	modifyexpiretime	
deviceids	Array	Configure the device settings.	["Device Serial Number 1", "Device Serial Number 2"]
showfreelife	int	Is it free for life?	0 It is not 1; it is
expiretime	int	Equipment expiration date	(The expiration time for the device information is this expire notifytime.)
syncoverduetime	int	Whether to synchronize the platform expiration date	1: Yes / 0: No

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes
errorrecords	Array	Failure Record	
successrecords	Array	Successful record	
fail	int	Number of failures	
success	int	Number of successes	
fail	int	Number of failures	
total	int	Total number	

Talk Back

Initiate Intercom

action = start audio_sync Send command

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channel	int	Intercom channel ID	The default value is 0; it can be queried using `querydeviceby id a pi`.
datatype	int	Data type: default is 2	0 Audio & Video 1 Video 2 Two-way Intercom 3 One-way Speech 4 Central Broadcasting 5 Transparent Transmission
playtype	string	flvs or rt mp	Intercom voice playback type

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Or success on 6 or 8
cause	String	Error content	
record	Json	Return detailed information	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Return value: Record

Parameter	Data type	Explain	Define
channel	int	Intercom channel ID	
playurlaudio	String	BroadcastURL	Play with the FLV player
uploadurlaudio	String	UploadURL	Upload via WebSocket

Voice Message Format

Send via WebSocket: command + JSON payload. Command: "upload audio info" JSON payload.

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channel	int	Intercom channel ID	The default value is 0; it can be queried using `querydeviceby id a pi`.
codec	string	Voice Format	pcms16
samplebits	int	Sampling bits	16
samplerate	int	Sampling rate	8000
littleedian	int	Large and small heads	Default to 1; 1 indicates little-endian, while 0 indicates big-endian.
sn	int	Package serial number	Start from 0; increment the counter by 1 for each packet sent.

example:

```
uploadaudioinfo{"deviceid":"220380105977","codec":"pcms16","samplebits":16,"littleedian":1,"channel":0,"sn":0,"numberofchannels":1,"samplerate":8000}
```

returned value:

Parameter	Data type	Explain	Define
String	String	Fixed reply content	OK OK

Send Voice Data

Directly transmit binary audio data via WebSockets

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Stop the Walkie-Talkie

Send the command: action = stopaudio

Parameter	Data type	Explain	Define
deviceid	String	Device serial number	
channel	int	Intercom channel ID	The default value is 0; it can be queried using `querydeviceby id a pi`.
datatype	int	Data type: default is 2	0 Audio & Video 1 Video 2 Two-way Intercom 3 Monitoring 4 Central Broadcasting 5 Transparent Transmission

returned value:

Parameter	Data type	Explain	Define
status	int	Reply status	0 Or success on 6 or 8
cause	String	Error content	

Description of the status field

State Enum	State value	Status Description
CMD_SEND_RESULT_UNKONWN	-1	Unknown error
CMD_SEND_RESULT_UNCONFIRM	0	Transmission successful; no confirmation received.
CMD_SEND_RESULT_PASSWORD_ERROR	1	Wrong password
CMD_SEND_RESULT_OFFLINE_NOT_CACHE	2	Device is offline and has no cache.
CMD_SEND_RESULT_OFFLINE_CACHED	3	Device is offline; data has been cached.
CMD_SEND_RESULT_MODIFY_DEFAULT_PASSWORD	4	You need to change the default password.
CMD_SEND_RESULT_DETAIL_ERROR	5	Unknown error
CMD_SEND_CONFIRMED	6	Transmission successful; receipt confirmed.
CMD_SEND_OVER_RETRY_TIMES	7	Three attempts to send failed.
CMD_SEND_SYNC_TIMEOUT	8	No acknowledgment was received within 60 seconds after the synchronous message was sent.

Mini Program

Cross-Mini-Program Redirection

Between mini programs, to navigate to another mini program, call `wx.navigateToMiniProgram` to perform the navigation.

Parameter	Explain	Remarks
appId	The appId of the target mini-program	appId: 'wx1adc416eb7f77a05'
path	Target page path	path: 'pages/login/login?username=justdemo&password=Aa1357'
		Automatic login will be triggered when 'username' and 'password' are provided; however, the provided parameters must be encoded using 'encodeURIComponent'.

Example: `wx.navigateToMiniProgram({appId: 'wx1 adc 416eb7f77a 05', path: 'pages/login/login', extraData: {foo: 'bar'}, envVersion: 'develop', success(res) {
Opened successfully}});`

Redirect from Web Page to Mini-Program

To redirect from a web page to a mini-program, use the [WeChat Open Tag](#) for redirection. Note: This feature only supports redirection within a WeChat environment; for further details, please refer to the [WeChat Open Tag](#) documentation.

Parameter	Explain	Remarks
appId	The appId of the target mini-program	appId: 'wx1adc416eb7f77a05'
path	Target page path	path: 'pages/login/login?username=justdemo&password=Aa1357'
		Automatic login will be triggered when 'username' and 'password' are provided; however, the provided parameters must be encoded using 'encodeURIComponent'.

instance:

```
<wx-open-launch-weapp id="launch-btn" appId="wx1adc416eb7f77a05" path="pages/login/login?
username=justdemo&password=Aa1357"
```

```
<script type="text/wxtag-template"> <style>.btn { padding: 12px }</style>
```

```
<button class="btn">打开小程序</button>
```

```
</script> <script> var btn = document.getElementById('launch-btn'); btn.addEventListener('launch', function(e) {console.log('success');});
btn.addEventListener('error', function(e) {console.log('fail', e.detail);}); </script> For specific usage steps and detailed use cases, please
refer to WeChat Open Tags
```

Over-Speed Report

Check for Speeding

action = report overspeeds: query for overspeeds

Parameter	Data type	Explain	Define
startday	String	Date commenced	yyyy-MM-dd
endday	String	Deadline	yyyy-MM-dd
deviceids	Array	Array	EquipmentID
offset	int	Time zone	
limitspeed	int	Velocity	No transmission is required when querying over-speed alarms from the device; however, transmission is required when querying over-speed alarms via the platform.

returned value:

Parameter	Data type	Explain	Define
cause	String	Cause	
status	int	Return state	0 successes
addressmap	Object	Return address	Matched by latitude and longitude
records	Array	Over-speed alarm array	

records field:

Parameter	Data type	Explain	Define
deviceid	string	Equipmentid	
alarmtype	int	Quote Type	
begintime	int	Start time	
endtime	int	Terminal time	
sdistance	int	Starting Mileage	
edistance	int	Remaining Mileage	
sspeed	int	Commencing speed	
espeed	int	Ending speed	
slon	number	End longitude	
slat	number	Starting latitude	
elon	number	End longitude	
elat	number	Starting latitude	
maxspeed	int	Maximum speed	
minspeed	int	Minimum speed	

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