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# COMMUNICATION PROTOCOL<sub>V1.0.3</sub>

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## Edition statement

modification time	Modified by	Version	Modify Content
2015-07-22	Jason	V1.0.1	New protocol
2015-08-10	Jason	V1.0.2	Extended Validation package, increasing electricity upload data
2015-11-03	Jason	V1.0.3	Add Blind Spots Uploading protocol
2016-01-04	Jason	V1.0.4	Add SOS, Add the number of base stations protocol
2016-03-14	Jason	V1.0.5	Add working mode protocol

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## 一. Communication protocol

### Introduction

This document defines the Car GPS positioning service platform for application-layer interface protocol. Relevant interface protocol is only used for the interaction between the platform and positioning terminal.

## 二、Protocol No.

### 1. Protocol List

Protocol No.	Data packet Description	Respond	Uplink or Downlink
V1	Location data packet	NO	Uplink
XT	Heartbeat packet	YES	Uplink
VI1	Location Request packet	YES	Uplink
VI	Location Response packet	NO	Downlink
S20	Start cut-off oil&engine Data packet	YES	Downlink
V4	Instruction acknowledgment packet	NO	Uplink
SF	Fortification	YES	Downlink
SF2	Fortification, version II	YES	Downlink
CF	Disarm packet	YES	Downlink
CF2	Disarm packet, version II	YES	Downlink
TG	Platform distributes sms	YES	Downlink
UR	Main number bind	YES	Downlink
IP	Modify IP	YES	Downlink
ST	Setting sms interception number	YES	Downlink
MP	Terminal password setting	YES	Downlink
XT/NXT	Uploading interval setting	YES	Downlink
KC	Alarm Way Setting	YES	Downlink
CQ	Device Reboot	YES	Downlink
RESET	Reset to defaults	YES	Downlink
APN	APN network access point setting	YES	Downlink
SQQ	Family Number setting	YES	Downlink
ACPC	Answer mode setting	YES	Downlink
SIMEI	IMEI setting	YES	Downlink
SLAN	Language setting	YES	Downlink

CALB	Monitor	YES	Downlink
PWM	The power saving mode setting	YES	Downlink
OVSP	Overspeed Setting	YES	Downlink
INFO	Query the device status	YES	Downlink
ALRM	Alarm	YES	Uplink

## 2.Uplink&Downlink description

Description	Remark
Server-----→Terminal	Downlink
Terminal-----→Server	Uplink

## 3.Packet definition

\*XX, YYYYYYYYYY, cmd, HHmmss, S, latitude, D, longitude, G, speed, direction, DD  
MMYY, vehicle\_status, pw , 3, mcc, mnc, lac, cid, lac, cid, lac, cid #

Information Field Description:

Format	Field Name	Remark
*XX	IHDR	IHDR
YYYYYYYYYY	Terminal No.	Terminal No.
cmd	Operation name	Command names, refer to the "Protocol List"
HHmmss	Time	Automotive machine time, standard time, 8 hour time difference with GMT
S	Data valid bit	Data valid bit (A/V/B) , A representative of GPS positioning data is valid data, V indicates that the GPS data is invalid positioning data B represents Compass
latitude	latitude	latitude, format DDFF.FFFF, DD: Latitude Degree (00 ~ 90) , FF.FFFF: Latitude points (00.0000 ~ 59.9999) , Reserved four decimals
D	Latitude symbol	Latitude symbol (N: northern latitude, S: southern latitude)
longitude	longitude	longitude, formatDDDFF.FFFF, DDD: Longitude Degree (000 ~ 180) , FF.FFFF: Longitude points (00.0000 ~ 59.9999) , Reserved four decimals
G	longitude symbol	longitude symbol (E: east longitude, W: west longitude)

speed	speed	speed, range000.00 ~ 999.99 knots Reserved two decimals.The information fields maybe null,that means the speed is 0. 1Kn=1.852 km/h
direction	Azimuth	Azimuth, Due north is 0 degree, resolution is 1 degree, Clockwise direction.The information fields maybe null,that means the degree is 0
DDMMYY	day/month/ year	day/month/ year
vehicle_status	Terminal Status	Terminal Status,total 4 bytes,represent vehicle machine component state, vehicle component status and alarm status ...
pw	Power Capacity	device power percentage 00-99 99 means 100%
count	Base station quantity	3
mcc	Country Code	Country Code
mnc	Operator code	Operator code
lac	Base station code	District code
cidf	Base station code	District ID
lac	Base station code	District code
cidf	Base station code	District ID
lac	Base station code	District code
cidf	Base station code	District ID

#### 4. Terminal Status (alarm) analysis

vehicle\_status use ASCII character represent 16 hexadecimal value, below is every byte each specific meaning of the variable, bit represent use

negative logic, that is bit = 0 valid. show as below table:

FFF9FFFF FFF9FFEF=Cut-off engine FFFFFFFBFF=sos

Bit order	The first byte		The second byte		The third byte		The fourth byte	
0	0	Temperature alarm	0	GPS Receiver fault alarm	0	door open	0	Theft alarm
1	0	three times password error alarm	1	Analog quantity transfinite alarm	0	Vehicle fortified status	0	robbery alarm
2	0	GPRS Occlusion alarm	0	remain→sos alarm state	0	ACC off	0	overspeed alarm
3	0	vehicle in the cut-off oil&engine state	0	host powered by the backup battery	1	reserve	0	illegal ignition alarm
4	0	Storage battery removal state	0	Storage battery has been removed	1	reserve	0	No entry cross-border alarm
5	0	The high level sensor 1 is high	0	open circuit for GPS antenna	0	engine	0	gps antenna open circuit alarm
6	0	The high level sensor 2 is high	0	short circuit for GPS antenna	0	Custom alarm	0	gps antenna short circuit alarm
7	0	The low level sensor 1 bond strap	0	The low level sensor 2 bond strap	0	vehicle overspeed	0	No entry cross-border alarm

## 5. Instruction acknowledgment packet definition

\*XX, YYYYYYYYYY, ack, rHHmmss, HHmmss, S, latitude, D, longitude, G, speed, direction, DDMMYY, vehicle\_status, mcc, mnc, lac, cid#

Information Field Description:

Format	Field Name	Remark
*XX	IHDR	IHDR
YYYYYYYYYY	Terminal No.	Terminal No./IMEI NO.
ack	Instruction acknowledgment packet	Instruction acknowledgment packet
cmd	Confirmation command	Confirmed operation command, please refer to "Protocol List"
ret	Return parameters	Return parameters confirmation
rHHmmss	Instruction time	Value of time field for the downlink instruction packet
HHmmss	time confirmation	time for acknowledgement Packet

S	Data valid bit	Data valid bit (A/V/B) , A representative of GPS positioning data is valid data, V indicates that the GPS data is invalid positioning data B6 represents Compass
latitude	latitude	latitude, format DDFF.FFFF, DD: Latitude Degree (00 ~ 90) ,FF.FFFF: Latitude Points (00.0000 ~ 59.9999) , Reserved four decimals
D	latitude symbol	latitude symbol (N: northern latitude, S:southern latitude)
longitude	longitude	longitude, formatDDDFF.FFFF, DDD: (000 ~ 180) , FF.FFFF: (00.0000 ~ 59.9999) , Reserved four decimals
G	longitude symbol	longitude symbol (E: east longitude, W: west longitude)
speed	speed	speed, range000.00 ~ 999.99 knots Reserved two decimals.The information fields maybe null,that means the speed is 0。1kn=1.852km/h
direction	Azimuth	Azimuth, due north is 0 degree, resolution is 1 degree, Clockwise direction.The information fields maybe empty,that means the degree is 0
DDMMYY	day/month/year	day/month/year
vehicle_status	Terminal Status	Terminal Status,total 4 bytes. represent vehicle machine component state, vehicle component status and alarm status ...
mcc	Country code	Country code
mnc	Operator code	Operator code
lac	Location area code	Location area code
cid	Base station code	District ID

## 6. Returned parameters (ret)Acknowledgement Packet defined

ret use ASCII Characters represent 16 hex value, total two bytes:

0x80-0xFF: Indicates success

0x00-0x7F: Indicates fail



16 hex value	Remark
0x00	Device support, but the operation failed
0x01	Device does not support this operation
0x02	Beyond the index range
0x03-0x7F	The operation failed, the error message is undefined
0x80	Successful operation
0x81-0xFF	Successful operation, But the return result is undefined

### 三、Uplink command

#### 0.Real-time location-simplify

GPS location:

\*XX, YYYYYYYYYY, VP1, A, latitude, D, longitude, G, speed, direction, DDMMYY, vehicle\_status#

Beidou location:

\*XX, YYYYYYYYYY, VP1, B, latitude, D, longitude, G, speed, direction, DDMMYY#

**Pure base station location: base station use Y to separate**

\*XX, YYYYYYYYYY, VP1, V, mcc, mnc, lac, cid, relveYlac, cid, relveYlac, cid, relveY#

eg:

GPS|Beidou location:

\*HQ, 353505910449999, VP1, A, 2239.4210, N, 11400.8825, E, 0.00, 348, 180814, FFFFFFFF, 90#

Pure base station:

\*HQ, 353505910449999, VP1, V, 460, 0, 9376, 8532, 99Y9876, 4357, 99Y0, 0, 99Y#

RESPOND: NO

#### 1. Real-time location

LAC CID Less than 3 fill 0

\*XX, YYYYYYYYYY, V1, HHmmss, S, latitude, D, longitude, G, speed, direction, DDM

MY, vehicle\_status ,pw, 3, mcc, mnc, lac, cid, lac, cid, lac, cid #

eg:

\*HQ, 353505910449999, V1, 052825, A, 2239. 4210, N, 11400. 8825, E, 0. 00, 348, 180  
814, FFFFFFFF, 90, 3, 460, 0, 9376, 8532, 9876, 4357, 0, 0 #  
RESPOND: NO

## 2.HEARTBEAT PACKET(XT)

\*XX, YYYYYYYYYY, XT, status, power#

Field	Remark
status	Movement state, number 1-2: 2:stop 1:move
power	power percentage

eg:

\*HQ, 353505910449999, XT#  
RESPOND FORMAT:NO

## 3.Location request(VI1)

\*XX, YYYYYYYYYY, VI1, HHmmss, Code, latitude, D, longitude, G, speed, direction,  
DDMMYY, vehicle\_status, mcc, mnc, lac, cid, pw, lac-cid-signal#

eg:

\*HQ, 353505910449999, VI1, 052825, 0, 2239. 4210, N, 11400. 8825, E, 0. 00, 348, 18  
0814, FFFFFFFF, 1CC, 0, 25FC, F48, 90, 25FC-F48-10| 25FC-F48-6| 25FC-F48-7#  
Respond: yes

Response format as follows:

\*HQ, YYYYYYYYYY, VI, HHmmss, Display\_Time, Code, Info\_lenth, Infor  
mation#

Format	Field Name	Remark
Display_Time	Time	Display time, unit: second, range: 5-65535, Display_Time = 0 means 65536 seconds. (Uplink On line time)
Code	Coding scheme	0: GB2312, 1: unicode, Other:undefined

Info_lenth	Message length	Message length, 0-255, 0 equivalent to 256, over 256 modulo by 256, handle or LCD screen in
Information	Message	Display information,length is less than 256bytes. (128 words)

eg:

\*HQ, 0000000000, VI, 130305, 60, 0, 26, Zhongshan overpass near, Nanshan

District, Shenzhen#

Response: No

#### 4.Blind Spots Uploading(BC)

\*XX, YYYYYYYYYY, BC, HHmmss, Length, Segment#

Segment:S, latitude, D, longitude, G, speed, direction, DDHHmmss, vehicle\_status, mcc, mnc, lac, cid;

Response: No

eg:

\*HQ, 353505910449999, BC, 052825, 138, A, 2239. 4210, N, 11400. 8825, E, 0. 00, 348, 03182512, FFFFFFFF, 1CC, 0, 25FC, F48;A, 2239. 4210, N, 11400. 8825, E, 0. 00, 348, 03182612, FFFFFFFF, 1CC, 0, 25FC, F48#

Format	Field Name	Remark
XX	Time	Display time, unit: second, range: 5-65535, Time= 0 means 65536 seconds. (Uplink On line time)
Length	Segment length	Indication for the length of segment
Segment	Complement uploading information	complement uploading data, no more than 100 points, A plurality of points with a semicolon (;) separated; the contents of a single point is: S, latitude, D, longitude, G, speed, direction, DDHHmmss, vehicle_status, mcc, mnc, lac, cid; (Data valid bit,

		latitude, longitude identification, longitude, longitude identification, speed, direction, every second day, device status, country code, network type (operator code), location area code, base station code)
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## 5.Device alarm(ALRM)

\*XX, YYYYYYYYYY, ALRM, type#

Response: No

Field	Remark
type	Alarm type , number 1-n: 1:SOS alarm 2:ACC alarm 3:Vibration alarm 4:main power cut off alarm

eg:

\*HQ, 353505910449999, ALRM, 1#

## 6.AGPS Resource request(AGPS)

\*XX, YYYYYYYYYY, AGPS, MCC#

eg: \*HQ, 353505910449999, AGPS, 460#

Response: Yes

\*XX, YYYYYYYYYY, AGPS, DATA#

DATA is ublox returned data(Binary stream)

Response eg:

\*HQ, 353505910449999, AGPS, wDH0pICP6YcAPQCsQL4mf8AJfBSALLAIAEN4Aum#

## 7.lgzone clock request(lgzone)

\*XX, YYYYYYYYYY, lgzone#

eg: \*HQ, 353505910449999, lgzone#

Response: Yes

\*hq, imei, lgzone, 2016-01-12 06:12:08#

## 四、Downlink command

### 1. cut off oil-engine/recovery oil&engine(S20)

\*XX, YYYYYYYYYY, S20, T#

Field	Remark
T	cut off or recovery 0 represents recovery, 1 represents cut off

\*HQ, 0000000000, S20, 0# Cut off oil

\*HQ, 0000000000, S20, 1# Recovery oil

Return information:

\*HQ, 2020916012, V4, S20#

### 2. Response to location request(CR)

\*HQ, YYYYYYYYYY, CR#

Response: Yes

\*HQ, YYYYYYYYYY, V4, CR#

After received the command, device will upload one location data immediately.

### 3. Fortification(SF)

\*HQ, YYYYYYYYYY, SF#

eg:

\*HQ, 135790246811221, SF#

Response: Yes

Response format is as follows

\*HQ, 135790246811221, V4, SF#

#### 4. Disarming(CF)

\*HQ, YYYYYYYYYY, CF#

eg:

\*HQ, 135790246811221, CF#

Response: Yes

Response format is as follows

\*HQ, 135790246811221, V4, CF#

#### 5. Main Number Bind(UR)

\*HQ, YYYYYYYYYY, UR, NUM\_LIST#

eg:

\*HQ, 135790246811221, UR, 15014333333, 1343333333, 0, 0, 0#

Response: Yes

Field	Remark
NUM_LIST	Binding number list, multiple numbers separated by  , supports a maximum of six numbers, the first one is the main number, the rest is frequently used numbers (family number)

Response format

\*HQ, YYYYYYYYYY, V4, UR#

#### 6. Server setting(IP)

\*HQ, 135790246811221, IP, INDEX, IP, PORT, YM, HHmmss#

Format	Field name	Remark
--------	------------	--------

IP	IP	IP address (32bit)
INDEX	DIGITS	1 or 2 is priority number.1 is for IP priority.2 for domain priority
IP	IP	Use 0 to instead, (waste)
PORT	Port Number	The port number for hexadecimal
YM	Domain Name	Domain Name

eg:

\*HQ,135790246811221,IP,1,00000000,1a7c,www.gps588.com, 130305#

Response:Yes

Response format is as follow:

\*HQ,135790246811221,V4,IP,80,130305,050316,A,2212.8745,N,11346.6574,E,14.28,028,220902,FFFFFBFF, mcc, mnc, lac, cid#

## 7. Terminal password setting(MP)

\*XX, YYYYYYYYYY, MP, Old\_password, New\_password#

msg is the content of sending includes fields as follows:

Field	Remark
Old_password	Terminal old password(6 digits)
New_password	Terminal new password(6 digits)

eg:

\*HQ, 353505910449999, MP, 000000, 123456#

Response:Yes

Response format is as follow:

The return information after modify the password.

\*HQ,135790246811221,V4,MP, 1# succeed

\*HQ,135790246811221,V4,MP, 0# failed

## 8. Interval settings(XT/NXT)

\*XX, YYYYYYYYYY, [XT/NXT], seconds#

Field	Remark
XT	Terminal driving packets upload interval
NXT	Terminal resting packets upload interval
seconds	Corresponding to the time interval of upload data packets while driving [5, 3600], static range[10, 7200]units:SEC(s)

eg:

\*HQ, 353505910449999, NXT, 10#

Response:Yes

Response format is as follow:

\*HQ, 135790246811221, V4, NXT#

## 9. Alarm Mode Setting(KC)

\*XX, YYYYYYYYYY, KC, key, Type #

Field	Remark
Type Key,	Alarm type:1 SMS , 2.Phone calling Key values, 0, SOS button, 1,1 key, 2, 2 key

eg:

\*HQ, 353505910449999, KC, 0, 1 #

Response:Yes

Response format is as follow:

\*HQ, 135790246811221, V4, KC#

## 10. Device Reboot(CQ)



\*XX, YYYYYYYYYY, CQ#  
eg:  
\*HQ, 353505910449999, CQ#  
Response:Yes  
\*HQ,135790246811221,V4,CQ #

## 11. Reset to defaults(RESET)

\*XX, YYYYYYYYYY, RESET, HHmmss#  
eg:  
\*HQ, 353505910449999, RESET, 130305#  
Response:Yes  
Response format is as follow:  
\*HQ,135790246811221,V4,RESET,80,130305,050316,A,2212.8745,N,11346.6574,E,  
14.28,028,220902,FFFFFFFF,mcc,mnc,lac,cid #

## 12. Internet Access Point(APN)

\*XX, YYYYYYYYYY, APN, Name, User, PWD#

Field	Remark
Name	Local operators APN name
User	Access network operators corresponding account
PWD	The operator password

eg: Spain APN  
\*HQ, 353505910449999, APN, zap. vivo. com. br, vivo, vivo#  
Response:Yes  
Response format is as follow:  
\*HQ,135790246811221,V4,APN,#

## 13. Answer Mode(ACPC)

After closing the answer mode, the device can not receive calls

\*HQ, YYYYYYYYYY, ACPC, OPERATION#

eg:

\*HQ, 135790246811221, ACPC, 1#

Response:Yes

Field	Remark
OPERATION	1, open the answer mode 0, close the answer mode (off by default)

Response format is as follow:

\*HQ, 135790246811221, V4, ACPC#

## 14. IMEI Number Setting(SIMEI)

\*HQ, YYYYYYYYYY, SIMEI, NUM, 130305#

eg:

\*HQ, 135790246811221, SIMEI, 135790246811221130305#

Response:Yes

Field	Remark
NUM	15 digits of IMEI number

Response format is as follow:

\*HQ, 135790246811221, V4, SIMEI, 80, 130305, 050316, A, 2212. 8745, N, 11346. 657  
4, E, 14. 28, 028, 220902, FFFFFFFF, mcc, mnc, lac, cid#

## 15. Language Setting(SLAN)

\*HQ, YYYYYYYYYY, SLAN, lan, HHmmss#

eg:

\*HQ, 135790246811221, SLAN, en, 130305#

Response:Yes

Field	Remark
lan	International language simple code cn Simplified Chinese, en English

Response format is as follow

\*HQ, 135790246811221, V4, SLAN, 80, 130305, 050316, A, 2212. 8745, N, 11346. 6574,  
E, 14. 28, 028, 220902, FFFFFFFF, mcc, mnc, lac, cid#

## 16. Audio monitor(CALB)

Starts the monitor, the device will take the initiative to call the phone number bound

\*HQ, YYYYYYYYYY, CALB, HHmmss#

eg:

\*HQ, 135790246811221, CALB, HHmmss#

Response:Yes

Response format is as follow

\*HQ, 135790246811221, V4, CALB, 130305, 050316, A, 2212.8745, N, 11346.6574, E, 14.28, 028, 220902, FFFFFFFF, mcc, mnc, lac, cid#

## 17. Query Device Information(INFO)

\*HQ, YYYYYYYYYY, INFO#

Response:Yes

Field	Remark
operationList	use , to show the value of equipment information to query list

Display the information list

VOL	Electric quantity percentage 00-99
IP	domain, ip and port for the binding server eg: 219.148.126, 8169
UPF	Uploading data frequency, format:travel Upload time   resting upload time if there is no static uploading time, should be null units:second
PWM	running mode refer to “power saving mode”, mode Number
SOS	family number, multiple values among use, separated the corresponding array according to

	the Settings order, no value is null eg: 13510060482, 0, 0, 0, 0
ALM	Alarm mode, respectively SOS keyboard, 1 key, 2 key Alarm mode
APN	Apn name currently used, APN name in NVRAM

Response format is as follow

\*HQ, 135790246811221, V4, INFO, 80 ,  
132. 44. 55. 33, 8090, 60, 1, 13578882828, 0, 0, 0, 0, 1, cmnet, 0, 50#  
operationList: Operation value of server downlink  
result:  
According to the results of operation List combined, multiple values  
separated by (, )  
eg:  
\*HQ, 135790246811221, INFO#

## 18. Working Mode Setting(WMOD)

\*HQ,YYYYYYYYYYY,WMOD,TYPE,TIME1,TIME2#

Eg:

TYPE 0,1,2,3

\*HQ,135790246811221,1,0,0#

\*HQ,135790246811221,2,30,30#

interpretation: the device off after finished setting, after 30 minutes, automatic on, restart, working for 30 minutes, and then enter a dormant state.

Every 24 hours a loop

Response: Yes

Field	Remark
TIME1	Device start to work after the current time how many minutes
TIME2	device enters the shutdown state after how long working time

Power Saving Mode -» EMODE,3,0,0

## 19. Callback(CALL)

Device will call the designated Mob automatically.

\*HQ, YYYYYYYYYY, CALL, 手机号码 Cell phone Number#

Eg:

\*HQ, 135790246811221, CALL, 1368866338#

Response:No

## 20. Sending SMS(SMS)

Device will send SMS to the designated mob automatically.

\*HQ, YYYYYYYYYY, SMS, cellphone number, sms content#

eg:

\*HQ, 135790246811221, SMS, 1368866338, location: Luohu district in shenzhen city, guangdong province, kingkey 100 building south 20m#

Response:No

## 21. Open the Smart Led(LIGHT)

After the opening of smart led, the device will blink

\*HQ, YYYYYYYYYY, LIGHT, ONOFF#

Eg:

\*HQ, 135790246811221, LIGHT, 1#

Field Statement

Field	Remark
ONOFF	1:Turn on the light, 0:Turn off the light (default is turn off the light)

Response:No

## 五、SMS Command

### 1. SMS position(DW)


Cellphone Number:will return to the cellphone of the one which send the sms directly

Message content: URL address will add the mcc on the basis of the existing new parameters, so that the server can pass the MCC country code to determine whether domestic or overseas, to jump


domestic: google.cn

overseas: google.com

format:

 [http://app.gps112.net/device/location/\[imei\]/\[mcc\]/\[lon\]/\[lat\]](http://app.gps112.net/device/location/[imei]/[mcc]/[lon]/[lat])

示例: eg:

 <http://app.gps112.net/device/location/353506220500325/460/114.22566/22.556668>

## 2. Device Information(INFO)

Mobile Number: Will return to the mobile of the sms sending directly

SMS contents: Include imei、mcc、electric quantity、ip port、device time