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Set IP and port command: adminip123456 ip port  
Eg: amminip123456 kh10.shoubiaoyun.com 6100

All the data on this protocol are follow this format[Firm\*device ID\*Content-length\*Content], and the mark of firm is fixed as two bytes, the content-length is fixed as four bytes ASSII code, the big number in front of the small number, example: FFFF means the length is 65535.

## One--- Terminal Sends Command

### 1. Link Remains

(1)

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*LK]

Eg: [SG\*8800000015\*0002\*LK]

Platform reply:

[CS\*YYYYYYYYYY\*LEN\*LK]

Eg: [SG\*8800000015\*0002\*LK]

Expain: Link keeps the data send every 5 minutes, if the terminal didn' t get any data reply, then you need to connect it again in 5 minutes.

(2)

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*LK, steps number, roll number, battery percentage]

Eg: [SG\*8800000015\*000D\*LK, 50, 100, 100]

Platform reply:

[CS\*YYYYYYYYYY\*LEN\*LK]

Eg: [SG\*8800000015\*0002\*LK]

Expain: Link keeps the data send every 2 minutes, if the terminal didn' t get any data reply, then you need to connect it in 2 minutes.

Both situations are being.

### 2. Location data Reporting

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*UD, location(See appendix 1)]

[SG\*8800000015\*0087\*UD, 220414, 134652, A, 22. 571707, N, 113. 8613968, E, 0. 1, 0. 0, 100, 7, 60, 90, 1000, 50, 0000, 4, 1, 460, 0, 9360, 4082, 131, 9360, 4092, 148, 9360, 4091, 143, 9360, 4153, 141]

Platform reply:

/No

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Explain: the location and statues information has been reported as terminal set, it needn't reply

### 3. Blind spot supplement data

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*UD2, location(See appendix 1)]

[SG\*8800000015\*0088\*UD2, 220414, 134652, A, 22. 571707, N, 113. 8613968, E, 0. 1, 0. 0, 100, 7, 60, 90, 1000, 50, 0000, 4, 1, 460, 0, 9360, 4082, 131, 9360, 4092, 148, 9360, 4091, 143, 9360, 4153, 141]

Platform reply:

No

Explain: If without GPRS signal, but with GPS signal before, When connected GPRS signal, it will supplement the earlier GPS located data.

### 4. Alarm data reporting

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*AL, location(See appendix 1)]

Eg:

[SG\*8800000015\*0087\*AL, 220414, 134652, A, 22. 571707, N, 113. 8613968, E, 0. 1, 0. 0, 100, 7, 60, 90, 1000, 50, 0001, 4, 1, 460, 0, 9360, 4082, 131, 9360, 4092, 148, 9360, 4091, 143, 9360, 4153, 141, 11]

Platform reply:

[CS\*YYYYYYYYYY\*LEN\*AL]

Eg: [SG\*8800000015\*0002\*AL]

Explain: When shock sensor was shocked, the terminal will send alarm information to platform, if the terminal didn't get any reply, it will keep sending regularly until get the alarm confirmed reply. The first 1 means shock alarm, the second 1 means over speed alarm. 1 means touch off, 0 means doesn't touch off.

### 5. Address request command

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*WAD, Language, Location(See appendix 1)]

Eg: [SG\*8800000015\*008B\*WAD, CH, 220414, 134652, A, 22. 571707, N, 113. 8613968, E, 0. 1, 0. 0, 100, 7, 60, 90, 1000, 50, 0001, 4, 1, 460, 0, 9360, 4082, 131, 9360, 4092, 148, 9360, 4091, 143, 9360, 4153, 141]

Platform reply:

[CS\*YYYYYYYYYY\*LEN\*RAD, Locate type, address info]

Eg: [SG\*8800000015\*000C\*RAD, GPS, corresponding language and address info]

Explain: Terminal address request command, the CH means Chinese, EN means English, the address info is GB232 code, There are two Locate types: GPS locate and BASE locate

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## 6. Coordinates request command

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*WG, Location(See appendix 1)]

Eg:

[SG\*8800000015\*0087\*WG, 220414, 134652, A, 22. 571707, N, 113. 8613968, E, 0. 1, 0. 0, 100, 7, 60, 90, 1000, 50, 0001, 4, 1, 460, 0, 9360, 4082, 131, 9360, 4092, 148, 9360, 4091, 143, 9360, 4153, 141]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*RG, Locate type, latitude, latitude mark, longitude, longitude mark]

Eg: [SG\*8800000015\*0021\*RG, BASE, 22. 571707, N, 113. 8613968, E]

Explain: It is used in without GPS signal, through LBS to request coordinates from platform

## Two--- Platform sends command

### 1. Set the data uploading time interval

Platform send:

[CS\*YYYYYYYYYY\*LEN\*UPLOAD, time interval]

Eg: [SG\*8800000015\*0009\*UPLOAD, 10]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*UPLOAD]

Eg: [SG\*8800000015\*0006\*UPLOAD]

Explain: Set the terminal reporting regularly time interval

### 2.Set the admin number

Platform send:

[CS\*YYYYYYYYYY\*LEN\*CENTER, admin number]

Eg: [SG\*8800000015\*0012\*CENTER, 00000000000]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*CENTER]

Eg: [SG\*8800000015\*0006\*CENTER]

Explain: set the admin number then can send SMS command through this number.

### 3. Call it

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*CALL, telephone number]

Eg: [SG\*8800000015\*0010\*CALL, 00000000000]

Terminal reply:

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[CS\*YYYYYYYYYY\*LEN\*CALL]

Eg: [SG\*8800000015\*0004\*CALL]

Explain: Through this command to call the corresponding phone number.

## 4. Voice monitoring

Terminal send:

[CS\*YYYYYYYYYY\*LEN\*MONITOR]

Eg: [SG\*8800000015\*0007\*MONITOR]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*MONITOR]

Eg: [SG\*8800000015\*0007\*MONITOR]

Explain: Terminal recall the admin number automatically.

## 5. Set the SOS phone number

(1) Set the first SOS phone number

Platform send:

[CS\*YYYYYYYYYY\*LEN\*SOS1, phone number]

Eg: [SG\*8800000015\*0010\*SOS1, 0000000000]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*SOS1]

Eg: [SG\*8800000015\*0004\*SOS1]

(2) Set the second SOS phone number

Platform send:

[CS\*YYYYYYYYYY\*LEN\*SOS2, phone number]

Eg: [SG\*8800000015\*0010\*SOS2, 0000000000]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*SOS2]

Eg: [SG\*8800000015\*0004\*SOS2]

(3) Set the third SOS phone number

Platform send:

[CS\*YYYYYYYYYY\*LEN\*SOS3, phone number]

Eg: [SG\*8800000015\*0010\*SOS3, 0000000000]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*SOS3]

Eg: [SG\*8800000015\*0004\*SOS3]

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(4) Set the three SOS phone number at the same time

Platform send:

[CS\*YYYYYYYYYY\*LEN\*SOS, phone number, phone number, phone number]

Eg: [SG\*8800000015\*0027\*SOS, 00000000000, 00000000000, 00000000000]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*SOS3]

Eg: [SG\*8800000015\*0003\*SOS]

Explain: Set the SOS phone number, when get alarm information, the terminal sends SMS or call the number.

## 6. Set language and time zone

Platform send:

[CS\*YYYYYYYYYY\*LEN\*LZ, language, time zone]

Eg: [SG\*8800000015\*0006\*LZ, 1, 8]

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*LZ]

Eg: [SG\*8800000015\*0002\*LZ]

Explain: set the terminal' s language and time zone

## 7.Set the Over Speed Alarm

Platform send:

[CS\*YYYYYYYYYY\*LEN\*OVERSED, speed ]

Eg: [SG\*5678901234\*000E\*OVERSED, 50]

50:speed (KM/H)

Terminal reply:

[CS\*YYYYYYYYYY\*LEN\*OVERSED]

Eg:: [SG\*5678901234\*0006\*OVERSED]

## 8. LED switch

Platform send:

[CS\*YYYYYYYYYY\*LEN\*LEDSET, switch]

Eg:: [SG\*5678901234\*0008\* LEDSET, 0]

Switch: 0 off 1 on

Terminal reply:  
[CS\*YYYYYYYYYY\*LEN\* LEDSET]  
Eg.: [SG\*5678901234\*0006\*LEDSET]

## Three---Appendix

[SG\*8800000015\*0087\*UD, 220414, 134652, A, 22. 571707, N, 113. 8613968, E, 0. 1, 0. 0, 100, 7, 60, 90, 1000, 50, 0000, 4, 1, 460, 0, 9360, 4082, 131, 9360, 4092, 148, 9360, 4091, 143, 9360, 4153, 141]

### Appendix 1, Explain the Location data

Name	Examples:(ASII code)	Explain
Date	120414	12Date,04Month,2014Year
time	101930	10Hour,19Minute,30Second
whether located or not	A	A: yes V: no
Latitude	22.564025	According to the DDD.DDDDD format, this Latitude is 22.564025.
Latitude Mark	N	N means North Latitude ,S means South Latitude
Longitude	113.242329	According to the DDD.DDDDD format, this Longitude is 113.242329
Longitude Mark	E	E means East Longitude, W means West Longitude
Speed	5.21	5.21km/h
Direction	152	Direction at 152 degrees
Altitude	100	In meters
Satellite Numbers	9	Means the number of the GPS satellite
GSM Signal Strength	100	Means the present GSM signal strength(0-100)
Batteries	90	Means the percentage of the present batteries
Steps number	1000	1000/ It counted 1000 steps
Roll number	50	Rolled 50 times
Terminal Statues	00000000	Use Hexadecimal characters to describe: Larger than 16bit means alarm, less than 16bit means statues Bit number(start from 0) Meaning(with effective from 1) 0 Lower battery 1 Out of the geo-fence 2 Into the geo-fence 3 Over speed alarm 4 Shock sense alarm

		16 17 18 19	SOS alarm Lower battery alarm Out of the geo-fence alarm Into the geo-fence alarm
LBS station numbers	4	Reporting the LBS stations number, 0 means don't report	
Connect LBS station ta	1	GSM delay	
MCC Country code	460	460 represents China	
MNC Network Number	02	02 represents China mobile	
Connecting the LBS Location area code	10133	Area code	
Connect LBS code	5173	LBS station code	
The strength of LBS signal	100	The strength of LBS signal	
Nearing LBS station 1's location area code	10133	Area code	
Nearing LBS station 1's code	5173	LBS station1' code	
Nearing LBS 1's signal strength	100	Signal strength	
Nearing LBS station 2's location area code	10133	Area code	
Nearing LBS station 2's code	5173	LBS station 2's code	
Nearing LBS station 2's Signal strength	100	Signal strength	
Nearing LBS station 3's location area code	10133	Area code	
Nearing LBS station 3's code	5173	LBS station 3's code	
Nearing LBS station 3's Signal strength	100	Signal strength	