

V50/V51 data protocol

Very important tips:

All the data in this agreement will follow [Factory letter*device ID*content-length*command letter*command data]format, among them manufacturer identification has two bytes, content-length are fixed four bytes ASCII code,high-order ahead,low order behind.For example,FFFF means the length is 65535.

Data from tracker automatically

Device function config data

```
[3G*9705079301*01CE*CONFIG,TY:g36d,UL:600,SY:0,CM:0,WT:1,HR:1,TB:2,AB:0,CS:0,PP:0,HH:1,TR:0,MO:1,FL:0,VD:0,DD:2,SD:1,XY:2,BO:1,WF:0,WX:0,PH:0,RW:0,MT:1,XD:0,XL:0,YF:0,SM:0,HF:1,JX:0,WL:0,BQ:0,QQ:0,DL:0,HT:0,PB:0,RS:240240,DW:0,SS:0,OF:1,IN:0,JT:1,LG:1+0,GH:0,BT:2,CL:1,FA:1,FD:1,CT:1,SO:1,ME:0,LR:0,TO:1,RR:1,AC:1,DC:0,RD:0,RY:0,XM:1,YJ:0,EM:0,VL:0+0,PV:0,FY:0,DS:0,DX:0,LL:0,AT:0,DM:1,RP:1,FM:0,MP:0,AD:0,UV:0,TM:1,BW:0,LS:2+8,FL:1,VR:C401_F10_RFHZ_V48_240_V1.0_2022.01.26_10.01.52]
```

Server reply

```
[SG*9705079301*0008*CONFIG,1]
```

SIM card information

```
[3G*2104346361*003B*ICCID,89860321147558480556,865121043463619,460115056494601,]
```

Server reply

```
[3G*2104346361*0016*RYIMEI,865121043463619]
```

Link data

```
Devie send [3G*9705000296*0009*LK,1002,0,40]
```

```
Sever reply [SG*9705000296*0002*LK]
```

The data means :step ,roll time,battery

Uploading interval setting

```
Sever send [SG*9705020274*000a*UPLOAD,600]
```

```
Device reply [3G*9705020274*0006*UPLOAD]
```

Sever request the location

```
Sever send [SG*9705000296*0002*CR]
```

Device reply

```
[3G*9705000296*00E1*UD_LTE,100222,221554,V,00.000000,,00.000000,,0.00,0.0,0.0,0,80,40,0,0,00000000,2,0,460,0,10142,225274433,4,10142,54313355,-4,4,,8c:14:b4:5e:4b:a8,-80,,d0:c7:c0:57:af:d2,-94,,60:3a:7c:34:05:c4,-104,,80:8f:1d:86:54:b5,-106,0.0]
```

step count time setting

```
[3G*9705000296*002c*WALKTIME,00:00-23:59,00:00-00:00,00:00-00:00]
```

```
[3G*9705000296*0008*WALKTIME]
```

Turn on Step count function

```
[3G*9705000296*0006*PEDO,1]
```

```
[3G*9705000296*0004*PEDO]
```

Position data =a

```
[3G*2104327437*0122*UD_LTE,241122,062109,A,22.653729,N,114.014600,E,1.95,113.553,74.931,10,10,0,20,0,0,00000000,1,1,460,00,9724,161454442,100,5,ChinaNet-mKA5,28:e3:4e:79:7b:6c,-53,ChinaNet-a37q,fc:37:2b:18:9b:f1,-55,ChinaNet-sNGp,c4:b8:b5:c2:fc:aa,-60,,d8:9e:61:ec:b5:41,-63,rfhz,d8:9e:61:ec:b5:
```

3c,-65,1.5274179]

when the data is A(blue highlight), that means the GPS signal works, you can use this GPS location data.

[3G*2104327437*010C*UD_LTE,241122,060700,V,0.0,N,0.0,E,22.0,0,-1,19,100,20,0,0,00000000,1,1,460,00,9724,54156684,100,5,ChinaNet-sNGp,c4:b8:b5:c2:fc:aa,-51,ChinaNet-mKA5,28:e3:4e:79:7b:6c,-51,rfhz,d8:9e:61:ec:b5:3c,-54,zhuowang,a8:7d:12:3f:47:9c,-63,ChinaNet-a37q,fc:37:2b:18:9b:f1,-63,0.0]

When the data mark is V, that mean the GPS signal fault,please refer the WIFI or LBS data as the location ,you need call the google database for wifi or LBS API transfer the mac code to latitude and longitude data.

Pill remind (once)

Send from Sever[3G*9705000296*001e*TAKEPILLS,06:22-1-1,1,00660066]

Tracker reply[3G*9705000296*000B*TAKEPILLS,1]

Pill remind(daily)

Send form sever[3G*9705000296*002a*TAKEPILLS,06:37-1-2,2,006400610069006c0079]

Tracker reply[3G*9705000296*000B*TAKEPILLS,1]

Pill remind (weekly)

Sned [3G*9705000296*0036*TAKEPILLS,07:00-1-3-1111111,3,007700650065006b006c0079]

reply[3G*9705000296*000B*TAKEPILLS,1]

Since the V50/V51 without screen, so please send voice file to tracker

Call back

Send from server [SG*9705000296*0013*MONITOR,13717148901] highlight is the phone number

reply[3G*9705000296*0007*MONITOR]

The tracker will call the number

SOS number

Send from server[SG*9705000296*0011*SOS,13717148901,,]

reply[3G*9705000296*0003*SOS]

SMS alarm switch

Send from serer[SG*9705000296*000a*SMSONOFF,1]

Reply [3G*9705000296*0008*SMSONOFF]

Pickup income call type: press to pickup incoming call

[SG*9705000296*000c*APPLOCK,JT-1]

[3G*9705000296*0007*APPLOCK]

Pickup income call type: auto-anwser

[SG*9705000296*000c*APPLOCK,JT-0]

[3G*9705000296*0007*APPLOCK]

Safty model

[SG*9705000296*0016*DEVREFUSEPHONESWITCH,0]

[3G*9705000296*0014*DEVREFUSEPHONESWITCH]

Profile type ring and vibrate

[3G*9705000296*0009*profile,1]

[3G*9705000296*0007*PROFILE]

Profile type ring only

[3G*9705000296*0009*profile,2]

[3G*9705000296*0007*PROFILE]

Profile type vibrate only

[3G*9705000296*0009*profile,3]
[3G*9705000296*0007*PROFILE]
Profile type only light remind
[3G*9705000296*0009*profile,4]
[3G*9705000296*0007*PROFILE]

Alarm time setting

Clock alarm turn on the sigle time 7:00;turn on each day 8:10 ,turn off 5:30 weekly
[3G*9705000296*002c*REMIND,07:00-1-1,08:10-1-2,05:30-0-3-1111111]
[3G*9705000296*0006*REMIND]

Talking clock switch

[SG*9705000296*0005*HSW,0]
[3G*9705000296*0003*HSW]

Falldown alarm switch

[3G*9705000296*000c*FALLDOWN,1,1]
[3G*9705000296*0008*FALLDOWN]

Falldown alarm sensitivity level setting

[3G*9705000296*0009*LSSET,5+6]
[3G*9705000296*0005*LSSET]

Ring the tracker

[3G*9705000296*0004*FIND]
[3G*9705000296*0004*FIND]

Timing switch (off)

[SG*9705000296*0017*SPOF,6,30,1,0,1,1111111]
[3G*9705000296*0004*SPOF]

Timin switch (on)

[SG*9705000296*0017*SPOF,6,35,1,0,0,1111111]
[3G*9705000296*0004*SPOF]

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Appendix: Protocol data instructions

Item	Example (ASCII code)	Explanation
Date	120414	(D-M-Y)2014, April 12th
Time	101930	(H-M-S) 10:19:30
GPS signal Located or not	A	A: Yes V: No
latitude	22.564025	Defined as the format of DD.DDDDDD, the value of latitude is: 22.564025.
Latitude Mark	N	N is North, S is South.
longitude	113.242329	Defined as the format of DDD.DDDDDD, its longitude value is :113.242329.
Longitude mark	E	E is East, W is west
Speed	5.21	5.21km/hour.
Direction	152	Direction is 152 degree.
elevation	100	Unit is meter
Satellite number	9	GPS satellite number is 9
GSM signal strength	100	Means current GSM signal strength (0-100)
Battery	90	Means current battery status in percentage
Steps	1000	Step number is 1000
Roll times	50	Rolled for 50 times
State of the terminal	00000000 (hexadecimal)	Expressed as a binary string 0000 0000 0000 0000 0000 0000 0000 0000 The meaning is as follows: The upper 16bit high indicates the alarm, and the lower 16bit indicates the status. Bit bit (0 start) Meaning (1 valid) 0 low power state 3 4 15 vibration alarm 16 SOS alarm 17 low power alarm 20 bracelet removal alarm 21 fall alarm 22 heart rate abnormal alarm
Base station number	1	Report base station number,0 means not report to base station
Base station connection	1	GSM delay
MCC country code	460	460 stands by China
MNC Net code	02	02 Stand by China Mobile
SID	10133	Zone code
NID	5173	Base station number
BID	100	Signal strength
Wifi info amount	5	Wifi spots number (at most 5 spots), in signal strength order.
Wifi 1 name	rrr	The first is wifi info name
Wifi 1 MAC address	1c:fa:68:13:a5:b4	The first wifi MAC address
Wifi 1 signal strength	-61	The first wifi signal strength
Wifi 1 name	abc	The second wifi name
Wifi 1 MAC address	1c:fa:68:13:a5:b5	The second wifi MAC address
Wifi 1 signal strength	-87	The second wifi signal strength
...

Accuracy	12.421	Accuracy of positioning
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Appendix 2: State of the terminal: alarm and situation

You need transfer the Hexadecimal to Binary, total is 32 bit, from right to left. Once you get the data sequence number then check the **State of the terminal**

Hex	0	0	1	0	0	0	0	8
Binary	0000	0000	0000	0001	0000	0000	0000	1000
Sequence number	31-28	27-24	23-20	19-16	15-12	11-8	7-4	3-0

For this data : the 16th is 1, that means: a SOS alarm triggered.

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