# V44C and V24 new version data sample

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 ASSII code,high-order ahead,low order behind.For example,FFFF means the length is 65535.

## Device send data to server automatically

**1.Device send the firmware version**
[3G*2104346361*01C3*CONFIG,TY:g36f,UL:45,SY:0,CM:0,WT:0,HR:0,TB:2,CS:0,PP:0,AB:0,HH:1,TR:1,MO:0,FL:0,VD:0,DD:0,SD:0,XY:0,WF:0,WX:0,PH:0,RW:0,MT:1,XD:0,XL:0,YF:0,SM:0,HF:0,JX:0,WL:0,MP:0,BQ:0,QQ:0,DL:0,HT:0,PB:0,RS:240240,DW:0,SS:0,OF:0,IN:0,JT:0,LG:0+1,GH:0,BT:0,BW:0,CL:0,BO:0,YJ:0,FA:1,FD:1,CT:1,SO:1,ME:1,LR:0,TO:1,RR:1,AC:1,DC:2,RD:0,RY:0,XM:1,EM:0,VL:0+0,PV:0,FY:0,DS:0,DX:0,LL:0,AT:0,TM:0,DM:1,RP:1,FR:0,ZF:0,VS:0,CN:1,VR:C36S_RFHZ_V44_04R4_V1.1_2022.04.14_17.23.33]
**Server reply**
[SG*2104346361*0008*CONFIG,1]

**2.SIM card information**
[3G*2104346361*003B*ICCID,89860321147558480556,865121043463619,460115056494601,]
**Server reply**
[3G*2104346361*0016*RYIMEI,865121043463619]

**3.link data**
[3G*2104346361*0008*LK,0,0,4]
**Server reply**
[SG*2104346361*0002*LK]

**4.Request voice chat data**
[3G*2104346361*0003*TKQ]
Server reply
[SG*2104346361*0003*TKQ]
or
[3G*2104346361*0004*TKQ2]
Server reply
[SG*2104346361*0004*TKQ2]

**5.location data**
[3G*2104346361*011D*UD_LTE,250422,030912,A,22.653558,N,114.0148242,E,0.34,0.0,0.0,9,100,4,0,0,00000001,5,0,460,11,30554,126856759,155,30554,-1,155,30554,-1,155,30554,77,155,30554,129,155,5,,d8:9e:61:ec:b5:3c,-50,,28:e3:4e:79:7b:6c,-52,,a8:7d:12:3f:47:9d,-62,,54:2b:de:ec:12:8f,-68,,0:c:43:76:20:e8,-83,0.0]
or
[3G*2104346361*0119*UD,250422,030912,V,22.653558,N,114.0148242,E,0.34,0.0,0.0,9,100,4,0,0,00000001,5,0,460,11,30554,126856759,155,30554,-1,155,30554,-1,155,30554,77,155,30554,129,155,5,,d8:9e:61:ec:b5:3c,-50,,28:e3:4e:79:7b:6c,-52,,a8:7d:12:3f:47:9d,-62,,54:2b:de:ec:12:8f,-68,,0:c:43:76:20:e8,-83,0.0]

**6. alarm data**
[3G*2104023534*00B7*AL,120422,220003,V,34.477192,S,58.5661050,W,0.00,0.0,0.0,0,42,99,0,0,00008008,6,255,722,7,4425,28416,125,4425,8796,123,4425,8790,119,4425,28242,119,4425,11902,119,4403,8982,116,0,22.7]

Server reply
[SG*2104023534*0002*AL]

**Command send from Server**

**1. Center number setting**
[SG*2104346361*0012*CENTER,17817367044]
Device reply
[3G*2104346361*0006*CENTER]

2. **Set SOS number**
[SG*2104346361*001c*SOS,15007557209,18129849657,]
Device reply
[3G*2104346361*0003*SOS]

**3.switch SMS alert to center number**
[SG*2104346361*000a*SMSONOFF,0] **0= off, 1=on**
Device reply
[3G*2104346361*0008*SMSONOFF]

**4.set the SMS alert switch when the "remove" alert triggered, the SMS will send to pre-set center number .**
[SG*2104346361*000b*REMOVESMS,1] **1= sent SMS alert, 0= not sent**
[3G*2104346361*0009*REMOVESMS]

**5. Set the LED light function**
[SG*2104346361*0005*LSN,2] **there are 2 light flash model**
[3G*2104346361*0003*LSN]

**6. Turn on or off the signal LED indicator**
[SG*2104346361*0005*LED,1]
[3G*2104346361*0003*LED]

**7. Set the vibration alert sensitive**
[SG*2104346361*0005*VON,3] **there are 4 level**
[3G*2104346361*0003*VON]

**8. Set the buzzer on/off when alert triggered**
[SG*2104346361*0005*HON,1]
[3G*2104346361*0003*HON]

**9. Alarm remind type**
[SG*2104346361*0005*MOD,0] **0=send alarm data to server only, 1=server +SMS +call,2= server +call ,3=server +SMS**
[3G*2104346361*0003*MOD]

**10. Safety model seting**
[SG*2104346361*0005*DND,1] 1=safety model, only accept incoming call from SOS number. 0= accept all calling.
[3G*2104346361*0003*DND]

**11. make the device ring**
[SG*2104346361*0005*BON,1] 1=make the device ring.
[3G*2104346361*0003*BON]

12. **Re-set the device**
[SG*2104346361*0005*RESET]
[3G*2104346361*0005*RESET]

**13. power off the device**
[SG*2104346361*0008*POWEROFF]
[3G*2104346361*0008*POWEROFF]

**14.step count time setting**
[3G*9705000296*002c*WALKTIME,00:00-23:59,00:00-00:00,00:00-00:00]
[3G*9705000296*0008*WALKTIME]

**15.Turn on Step count function**
[3G*9705000296*0006*PEDO,1]
[3G*9705000296*0004*PEDO]

**16.Sever request the location**
Sever send **[SG***9705000296*0002*CR]
Device reply
[3G*9705000296*00E1*UD_LTE,100222,221554,V,00.000000,,00.0000000,,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]

**17. Set the position uploading interval Second**
[SG*9705000296*0009*UPLOAD,60]
[3G*2104250145*0006*UPLOAD]

**Alarm demo**
Remove alarm
[3G*2104346361*00BF*AL_LTE,040522,025405,A,22.653546,N,114.0145880,E,0.22,0.0,0.0,10,100,81,0,0,00100000,7,0,460,0,9724,220122447,170,9724,-1,170,9724,-1,170,9724,-1,170,9724,-1,170,9724,-1,170,9724,-1,170,0,0.0]
**0000 0000 0001 0000 0000 0000 0000 0000**

Vibration alarm
[3G*2104346361*00BF*AL_LTE,040522,025606,A,22.653582,N,114.0145563,E,0.06,0.0,0.0,11,100,81,0,0,00008000,7,0,460,0,9724,220122447,170,9724,-1,170,9724,-1,170,9724,-1,170,9724,-1,170,9724,-1,170,9724,-1,170,0,0.0]
**0000 0000 0000 0000 1000 0000 0000 0000**

SOS alarm
[3G*2104346361*00BF*AL_LTE,040522,025733,A,22.653534,N,114.0146813,E,0.10,0.0,0.0,12,100,81,0,0,00010000,7,0,460,0,9724,220122447,172,9724,-1,172,9724,-1,172,9724,-1,172,9724,-1,172,9724,-1,172,9724,-1,172,0,0.0]
**0000 0000 0000 0001 0000 0000 0000 0000**

# Appendix： Protocol data instructions

| Item | Example (ASII 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<br>（hexadecimal） | Expressed as a binary string<br>0000 0000 0000 0000 0000 0000 0000 0000 The meaning is as follows:<br>The upper 16bit high indicates the alarm, and the lower 16bit indicates the status.<br>Bit bit (0 start) Meaning (1 valid)<br>0 low power state<br>3<br>4 watch is running at rest<br>15 vibration alarm<br>16 SOS alarm<br>17 low power alarm<br>20 removal alarm<br>21 fall alarm<br>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 |

# Appendix II: Description of equipment status bits

You need exchange the HEX to BIN, then there are 32bit in total, it is from 0-31.

Please analyze the alarm content according to the terminal status in Appendix II .

| HEX | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
|---|---|---|---|---|---|---|---|---|
| BIN | 0000 | 0000 | 0001 | 0000 | 0000 | 0000 | 0000 | 1000 |
| Serial number | 31-28 | 27-24 | 23-20 | 19-16 | 15-12 | 11-8 | 7-4 | 3-0 |
| | | | | | | | | N |

# For example :

00100008 means

Bit 3rd =1, This bit have no used,So there is no need to match alarm or situation

Bit 20th =1 This bit means remove alarm has triggered.