

GPRS communication protocol by 3g-elec

vision:V1.7_20150109

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In this agreement all data all defer by [the manufacturer * equipment ID* content length * content], in which manufacturer must fixed two bytes, the content length fixed are four byte ASSII codes, High lows before after, for example the expression length is 65535.

一. Terminal to send commands

1. Link Keep

(1)

Terminal Send:

[CS*YYYYYYYYYY*LEN*LK]

Example: [SG*8800000015*0002*LK]

Platform Reply:

[CS*YYYYYYYYYY*LEN*LK]

Example: [SG*8800000015*0002*LK]

Explanation: Once link data every 5 minutes, if the terminal has not received the reply data, then 5 minutes reconnect.

(2)

Terminal Send:

[CS*YYYYYYYYYY*LEN*LK, step, tumbling number , electric quantity percentage]

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

Platform Reply:

[CS*YYYYYYYYYY*LEN*LK]

Example: [SG*8800000015*0002*LK]

Explanation: Once link data every 5 minutes, if the terminal has not received the reply data, then 5 minutes reconnect.

2. Position data report

Terminal Send:

[CS*YYYYYYYYYY*LEN*UD, the position data (see appendix one)]

Example:

[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:

Not have

Explanation: The terminal reports the position and the condition information according to the upload time, does not need the platform reply.

3. Blind spot Data Supplements

Terminal Send:

[CS*YYYYYYYYYY*LEN*UD2, the position data (see appendix one)]

Example:

[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:

Not have

Explanation: Supplement reported data when Not logged in Platform

4. Alarm data report

Terminal Send:

[CS*YYYYYYYYYY*LEN*AL, the position data (see appendix one)]

Example:

[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]

Platform Reply:

[CS*YYYYYYYYYY*LEN*AL]

Example: [SG*8800000015*0002*AL]

Explanation: Terminal sends alarm information to the platform after alarming , if the terminal has not received the reply, then regular reporting until receive the alarm confirmation date.

5. Requested address instruction

Terminal Send:

[CS*YYYYYYYYYY*LEN*WAD, the language, the position data (see appendix one)]

Example:

[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, location type, address data]

Example: [SG*8800000015*000C*RAD, GPS, corresponding language address information]

Explanation: The terminal request address instruction, in which CH represents Chinese, EN represents English, the address data is the GB232 code, the location type divides into the GPS localization and BASE locates two kinds.

6. Requests the latitude and longitude of instruction

Terminal Send:

[CS*YYYYYYYYYY*LEN*WG, the position data (see appendix one)]

Example:

[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, localization type, latitude, latitude marking, longitude, longitude marking]

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

Explanation: Uses in no GPS signal, through base station mode to platform request latitude and longitude.

二. Send command platform

1. Upload the data interval is set

Platform to send:

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

Example: [SG*8800000015*0009*UPLOAD, 10]

Terminal response:

[CS*YYYYYYYYYY*LEN*UPLOAD]

Example: [SG*8800000015*0006*UPLOAD]

Explanation: set the terminal regular reporting interval

2. Center number set up

Platform to send:

[CS*YYYYYYYYYY*LEN*CENTER, center number]

Example: [SG*8800000015*0012*CENTER, 00000000000]

Terminal response:

[CS*YYYYYYYYYY*LEN*CENTER]

Example: [SG*8800000015*0006*CENTER]

Explanation: set center number, send sms commands to terminal by the center number.

3. Assist center number set up

Platform to send:

[CS*YYYYYYYYYY*LEN*SLAVE, auxiliary center number.]

Example: [SG*8800000015*0011*SLAVE, 00000000000]

Terminal response:

[CS*YYYYYYYYYY*LEN*SLAVE]

Example: [SG*8800000015*0005*SLAVE]

Explanation: set assist center number, send sms commands to terminal by the assist center number.

4. Control password set up

Platform to send:

[CS*YYYYYYYYYY*LEN*PW, password]

Example: [SG*8800000015*0009*PW, 111111]

Terminal response:

[CS*YYYYYYYYYY*LEN*PW]

Example: [SG*8800000015*0002*PW]

Explanation: set the terminal password, non center number send SMS commands to add a password.

5. Outgoing calls

Platform to send:

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

Example: [SG*8800000015*0010*CALL, 0000000000]

Terminal response:

[CS*YYYYYYYYYY*LEN*CALL]

Example: [SG*8800000015*0004*CALL]

Explanation: Through this command dial corresponding phone number.

6. Send text messages

Platform to send:

[CS*YYYYYYYYYY*LEN*SMS, SMS number, the content of the message]

Example: [SG*8800000015*001C*SMS, 0000000000, 123ABC everybody good]

Terminal response:

[CS*YYYYYYYYYY*LEN*SMS]

Example: [SG*8800000015*0003*SMS]

Explanation: send a message to the mobile phone number with the command, the content of the message sent by GB232 code.

7. Monitor

Platform to send:

[CS*YYYYYYYYYY*LEN*MONITOR]

Example: [SG*8800000015*0007*MONITOR]

Terminal response:

[CS*YYYYYYYYYY*LEN*MONITOR]

Example: [SG*8800000015*0007*MONITOR]

Explanation: terminal automatic callback center number.

8. SOS Number set

(1) First SOS number Set up

Platform to send:

[CS*YYYYYYYYYY*LEN*SOS1, telephone number]

Example: [SG*8800000015*0010*SOS1, 0000000000]

Terminal response:

[CS*YYYYYYYYYY*LEN*SOS1]

Example: [SG*8800000015*0004*SOS1]

(2) Second SOS number set up

Platform to send:

[CS*YYYYYYYYYY*LEN*SOS2, telephone number]

Example: [SG*8800000015*0010*SOS2, 00000000000]

Terminal response:

[CS*YYYYYYYYYY*LEN*SOS2]

Example: [SG*8800000015*0004*SOS2]

(3) Third SOS number set up

Platform to send:

[CS*YYYYYYYYYY*LEN*SOS3, telephone number]

Example: [SG*8800000015*0010*SOS3, 00000000000]

Terminal response:

[CS*YYYYYYYYYY*LEN*SOS3]

Example: [SG*8800000015*0004*SOS3]

(4) 3 SOS numbers set at the same time:

[CS*YYYYYYYYYY*LEN*SOS, telephone number, telephone number, telephone number]

Example: [SG*8800000015*0027*SOS, 00000000000, 00000000000, 00000000000]

Terminal response:

[CS*YYYYYYYYYY*LEN*SOS3]

Example: [SG*8800000015*0003*SOS]

Explanation: set the SOS number, dial to these numbers when terminal alarming.

9. Remote upgrade

Platform to send:

[CS*YYYYYYYYYY*LEN*UPGRADE, URL address]

Example: [SG*8800000015*0039*UPGRADE, [http://www.3g-elec.com/g29_updata/test/jt_ads.b
in](http://www.3g-elec.com/g29_updata/test/jt_ads.bin)]

Terminal response:

[CS*YYYYYYYYYY*LEN*UP]

Example: [SG*8800000015*0007*UPGRADE]

Explanation: remote control terminal upgrade.

10. IP port settings

Platform to send:

[CS*YYYYYYYYYY*LEN*IP, IP or domain name, port]

Example: [SG*8800000015*0014*IP, 113. 81. 229. 9, 5900]

Terminal response:

Terminal does not reply to this command, disconnect current connection and connects the new server.

Explanation: Connects the platform IP and port.

11. Restore factory settings

Platform to send:

[CS*YYYYYYYYYY*LEN*FACTORY]

Example: [SG*8800000015*0007*FACTORY]

Terminal response:

[CS*YYYYYYYYYY*LEN*FACTORY]

Example: [SG*8800000015*0007*FACTORY]

Explanation: The terminal restores factory settings

12. Set the language and time zone

Platform to send:

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

Example: [SG*8800000015*0006*LZ, 1, 8]

Terminal response:

[CS*YYYYYYYYYY*LEN*LZ]

Example: [SG*8800000015*0002*LZ]

Explanation: set the terminal language and the time zone.

13. Query URL Google link

Platform to send:

[CS*YYYYYYYYYY*LEN*URL]

Example: [SG*5678901234*0003*URL]

Terminal response:

[CS*YYYYYYYYYY*LEN*URL, Google link]

Example: [SG*5678901234*006B*URL, url:

<http://maps.google.com.hk/maps?q=N22.571695,E113.861404>

Locate date:2014-4-23

Locate time:18:16:59]

Explanation: Inquires the current URL address.

14. SOS SMS alarm switch

Platform to send:

[CS*YYYYYYYYYY*LEN*SOS SMS, 0 or 1]

Example: [SG*5678901234*0008*SOS SMS, 0]

Terminal response:

[CS*YYYYYYYYYY*LEN*SOS SMS]

Example: [SG*5678901234*0006*SOS SMS]

Explanation: send sms to sos numbers or not when there is sos alarming(0: Close, 1: Open).

15. Low battery alarm message switch

Platform to send:

[CS*YYYYYYYYYY*LEN*LOWBAT, 0 or 1]

Example: [SG*5678901234*0008*LOWBAT, 1]

Terminal response:

[CS*YYYYYYYYYY*LEN*LOWBAT]

Example: [SG*5678901234*0006*LOWBAT]

Explanation: send sms to center number or not when there is low bat alarming (0: Close, 1: Open)

16. APN Set

Platform to send:

[CS*YYYYYYYYYY*LEN*APN, APN name, user, password, user data]

Example: [SG*5678901234*0011*APN, cmnet, , , 46000]

Terminal response:

[CS*YYYYYYYYYY*LEN*APN]

Example: [SG*5678901234*0003*APN]

Explanation: Establishes the terminal APN parameter.

17. SMS access control

Platform to send:

[CS*YYYYYYYYYY*LEN*ANY, 0 or 1]

Example: [SG*5678901234*0005*ANY, 0]

Terminal response:

[CS*YYYYYYYYYY*LEN*ANY]

Example: [SG*5678901234*0003*ANY]

Explanation: Establishes the terminal sms control power.

18. Query parameters

Platform to send:

[CS*YYYYYYYYYY*LEN*TS]

Example: [SG*5678901234*0002*TS]

Terminal response:

[CS*YYYYYYYYYY*LEN*TS, software version;terminal ID; IMEI number; IP; Port; Center number; assist center number; SOS1 number; SOS2 number; SOS3 number; uplopad time; Battery capacity; Language; Time zone; gps number; GSM signal strength; LED switch; Password;]

Explanation: Inquires the terminal parameter.

Example: [SG*5678901234*00FC*TS, ver:G29_BASE_V1.00_2014.04.24_09.47.23;

ID:SG*5678901234;

imei:1234SG*56789012345;

url:113.81.229.9;

port:5900;

center::

slave::

sos1::

sos2::

sos3::

upload:30S;

work mode:1;

bat level:3;

language:1;

zone:8.00;

GPS:NO(0);

GPRS:OK(89);

LED:OFF;

pw:123456;

]

19. Version of the query

Platform to send:

[CS*YYYYYYYYYY*LEN*VERNO]

Example: [SG*8800000015*0005*VERNO]

Terminal response:

[CS*YYYYYYYYYY*LEN*VERNO, edition number]

Example: [SG*8800000015*0028*VERNO, G29_BASE_V1.00_2014.04.23_17.46.49]

Explanation: check the terminal vision.

20. Restart

Platform to send:

[CS*YYYYYYYYYY*LEN*RESET]

Example: [SG*5678901234*0005*RESET]

Terminal response:

[CS*YYYYYYYYYY*LEN*RESET]

Example: [SG*5678901234*0005*RESET]

Explanation: terminal restart.

21. Positioning instruction

Platform to send:

[CS*YYYYYYYYYY*LEN*CR]

Example: [SG*5678901234*0002*CR]

Terminal response:

[CS*YYYYYYYYYY*LEN*RESET]

Example: [SG*5678901234*0002*CR]

Explanation: Wake up the terminal GPS module immediately, for a period of time in a position.

22. Bluetooth control instruction

Platform to send:

[CS*YYYYYYYYYY*LEN*BT, opens or closes (1,0)]

Example: [SG*5678901234*0004*BT, 1]

Terminal response:

[CS*YYYYYYYYYY*LEN*RESET]

Example: [SG*5678901234*0002*BT]

Explanation: Controls the terminal blue tooth switch, 1 is opens, 0 is closure.

23. Working time setting instructions

Platform to send:

[CS*YYYYYYYYYY*LEN*WORK, Working time]

Example: [SG*5678901234*0026*WORK, 6-9, 11-13, 13-15, 17-19, 17-19]

Terminal response:

[CS*YYYYYYYYYY*LEN*RESET]

Example: [SG*5678901234*0004*WORK]

Explanation: set the terminal working time, each time section separates by the comma, first 4 for Monday to Friday, latter two for Saturday and Sunday

24. Set the working time

Platform to send:

[CS*YYYYYYYYYY*LEN*WORKTIME, operating time]

Example: [SG*5678901234*000A*WORKTIME, 3]

Terminal response:

[CS*YYYYYYYYYY*LEN*RESET]

Example: [SG*5678901234*0008*WORKTIME]

Explanation: set the terminal continuous working time, the unit is minute.

25. The shutdown instructions

Platform to send:

[CS*YYYYYYYYYY*LEN*POWEROFF]

Example: [SG*5678901234*0008*POWEROFF]

Terminal response:

[CS*YYYYYYYYYY*LEN*RESET]

Example: [SG*5678901234*0008* POWEROFF]

Explanation: the shutdown function.

26. Remove the watch the alarm switch

Platform to send:

[CS*YYYYYYYYYY*LEN*REMOVE, 0 or 1]

Example: [SG*5678901234*0008*REMOVE, 1]

Terminal response:

[CS*YYYYYYYYYY*LEN*REMOVE]

Example: [SG*5678901234*0006*REMOVE]

Explanation: removal of the watch alarm function .

27. step count function switch

Platform to send:

[CS*YYYYYYYYYY*LEN*PED0, 0 or 1]

Example: [SG*5678901234*0004*PED0, 0]

Terminal response:

[CS*YYYYYYYYYY*LEN*ANY]

Example: [SG*5678901234*0004*PED0]

Explanation: set the terminal sms control power.

28. walktime settings

Platform to send:

[CS*YYYYYYYYYY*LEN*WALKTIME, time section, time section, time section]

Example: [SG*5678901234*002A*WALKTIME, 8:10-9:30, 10:10-11:30, 12:10-13:30]

Terminal response:

[CS*YYYYYYYYYY*LEN*ANY]

Example: [SG*5678901234*0008*WALKTIME]

Explanation: Set the step open time range

29. Sleep and rollover time detection settings

Platform to send:

[CS*YYYYYYYYYY*LEN*SLEEPTIME, time section]

Example: [SG*5678901234*0014*SLEEPTIME, 21:10-7:30]

Terminal response:

[CS*YYYYYYYYYY*LEN*ANY]

Example: [SG*5678901234*0009*SLEEPTIME]

Explanation: set the rollover detection time range

30. No disturbance time section set

Platform to send:

[CS*YYYYYYYYYY*LEN* SILENCETIME, time section, time section, time section, time section]

Example: [SG*5678901234*0037*SILENCETIME, 21:10-7:30, 21:10-7:30, 21:10-7:30, 21:10-7:30]

Terminal response:

[CS*YYYYYYYYYY*LEN*ANY]

Example: [SG*5678901234*000B*SILENCETIME]

Explanation: The establishment no disturbance time section scope.

31. Looking for a watch instruction

Platform to send:

[CS*YYYYYYYYYY*LEN*FIND]

Example: [SG*5678901234*0004*FIND]

Terminal response:

[CS*YYYYYYYYYY*LEN*ANY]

Example: [SG*5678901234*0004*FIND]

Explanation: Send the instruction then watch bell 1 minute.

32. A number of small red flowers set instruction

Platform to send:

[CS*YYYYYYYYYY*LEN*FLOWER, numer]

Example: [SG*5678901234*0008*FLOWER, 5]

Terminal response:

[CS*YYYYYYYYYY*LEN*FLOWER]

Example: [SG*5678901234*0006*FLOWER]

Explanation: set small red flowers of screen display.

33. Phrases Display set instruction

Platform to send:

[CS*YYYYYYYYYY*LEN*MESSAGE, phrase content]

Example: [SG*5678901234*0018*MESSAGE, 597D003100320033]

Terminal response:

[CS*YYYYYYYYYY*LEN*MESSAGE]

Example: [SG*5678901234*0007*MESSAGE]

Explanation: set phrase of screen display to terminal.

34. Alarm clock set Instruction

Platform to send:

[CS*YYYYYYYYYY*LEN*REMIND, alarm clock 1, alarm clock 2, alarm clock 3]

Example: [SG*5678901234*0018*REMIND, 08:10-1-1, 08:10-1-2, 08:10-1-3-0111110]

Terminal response:

[CS*YYYYYYYYYY*LEN*REMIND]

Example: [SG*5678901234*0006*REMIND]

Explanation: The alarm clock time - switch - frequency - type.

35. Remote debugging

Platform to send:

[CS*YYYYYYYYYY*LEN*DEBUG, IP or domain name, port]

Example: [SG*5678901234*0017*DEBUG, 113.81.229.9, 5600]

Terminal response:

[CS*YYYYYYYYYY*LEN*DEBUG]

Example: [SG*5678901234*0005*DEBUG]

Explanation: set IP and port of debugging information.

36. Close Remote debugging

Platform to send:

[CS*YYYYYYYYYY*LEN*DEBUGCLOSE]

Example: [SG*5678901234*000A*DEBUGCLOSE]

Terminal response:

[CS*YYYYYYYYYY*LEN*DEBUG]

Example: [SG*5678901234*000A*DEBUGCLOSE]

Explanation: set debugging information transmission IP and port.

37. Set IMEI number

Platform to send:

[CS*YYYYYYYYYY*LEN*IMEI, IMEI number]

Example: [SG*8800000015*0014*IMEI, 12345678901234]

Terminal response:

[CS*YYYYYYYYYY*LEN*IMEI]

Example: [SG*5678901234*0004*IMEI]

Explanation: set the terminal IMEI number.

38. Sms Switch

Platform to send:

[CS*YYYYYYYYYY*LEN*SMSONOFF, 0 or 1]

Example: [SG*5678901234*000A*SMSONOFF, 0]

Terminal response:

[CS*YYYYYYYYYY*LEN*SMSONOFF]

Example: [SG*5678901234*0008*SMSONOFF]

Explanation: Terminal all sms switch (0: Closure, 1: Open).

39. Automatic answering control

Platform to send:

[CS*YYYYYYYYYY*LEN*GSMANT, 0 or 1]

Example: [SG*5678901234*0008*GSMANT, 0]

Terminal response:

[CS*YYYYYYYYYY*LEN*GSMANT]

Example: [SG*5678901234*0006*GSMANT]

Explanation: set the terminal automatic answering.

40. Check pulse

Platform to send:

[CS*YYYYYYYYYY*LEN*PULSE]

Example: [SG*5678901234*0005*PULSE]

Terminal response:

[CS*YYYYYYYYYY*LEN*PULSE, pulse number]

Example: [SG*5678901234*0008*PULSE, 72]

Explanation: query pulse.

41. White list set command

Platform to send:

[CS*YYYYYYYYYY*LEN*WHITELIST1, number 1, number 2, number 3, number 4, number 5]

Example: [SG*5678901234*002D*WHITELIST1, 123456, 123456, 123456, 123456, 123456]

Terminal response:

[CS*YYYYYYYYYY*LEN*WHITELIST1]

Example: [SG*5678901234*000A*WHITELIST1]

Explanation: Establishes 1-5 white list number.

Platform to send:

[CS*YYYYYYYYYY*LEN*WHITELIST2, number 1, number 2, number 3, number 4, number 5]

Example: [SG*5678901234*002D*WHITELIST2, 123456, 123456, 123456, 123456, 123456]

Terminal response:

[CS*YYYYYYYYYY*LEN* WHITELIST2]

Example: [SG*5678901234*000A*WHITELIST2]

Explanation: set 6-10 white list number.

三. Appendix

Appendix One: Location data

Name	Examples (ASCII code)	Explanation
Date	120414	(day month year) April 21, 2014
Time	101930	(hour, minutes and seconds) ten nineteen 30 seconds
Whether the Location	A	A: positioning V: No positioning
latitude	22.564025	According to the definition of DD.DDDDDD format, this latitude value is: 22.564025.
Mark of latitude	N	N expresses the north latitude, S expresses the south latitude.
longitude	113.242329	According to the definition of DDD.DDDDDD format, this longitude value is: 113.242329.
Mark of longitude	E	E expresses the east longitude, W expresses the west longitude
Speed	5.21	5.21 km / hour.
Direction	152	In the direction of 152 degrees.
Altitude	100	Unit is meters
satellite number	9	Indicates that the GPS satellite number
signal intensity GSM	100	That represents the current GSM signal intensity (0-100)

Power	90	Expresses the current electric quantity rank percentage
Count the number of steps	1000	Counts the step is 1000
Roll number	50	Roll 50 times
Terminal state	00000000	Indicated with HEX string of character , the meaning is as follows: The high 16bit expression alarming, low 16bit expression condition. The Bit position (0 starts) Meaning (1 Effective) 0 Low battery state 1 out of fence state 2 Into the fence state 3 watch state 16 SOS alarm 17 Low battery alarm 18 out fence alarm 19 Into the fence alarm 20 Remove the watch alarm
Base stations number	4	upload Base stations number, 0 expressions does not uplaod the base station number
Base station tower	1	GSM Time delay
MCC country code	460	460 represent China
MNC network number	02	02 represent China Mobile
Base station location area code	10133	Area code
Base station number	5173	base station No.
base station signal strength	100	Signal strength
Near the base station 1 location area code	10133	Area code
Near the base station 1 number	5173	base station No.
near the base station 1 signal strength	100	Signal strength
Near the base station 2 location area code	10133	Area code
Near the base station 2 number	5173	base station No.
near the base station 2 signal strength	100	Signal strength
Near the base station 3 location area code	10133	Area code
Near the base station 3 number	5173	base station No.
near the base station 3 signal strength	100	Signal strength
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