The sample data and analysis are as follows:

0100 Terminal registration

Protocol data: 7E01000019013267937018000000000000373031313148572D45473031470000000000000000F77E

[0100] Message ID

[0019] Protocol data length: 25

[013267937018] Terminal mobile phone number

[0000] Message serial number: 0

[0000] Provincial ID

[0000] City and county ID

[3730313131] Manufacturer ID

[48572D4547303147] Terminal model: EG01G

[000000000000000] Terminal ID

[00] License plate color

[F7] Verification code

8100 Registration response

Protocol data: 7E81000009013267937018AC5200000062736A677073C67E

[8100] Message ID

[0009] Protocol data length: 9

[013267937018] Terminal mobile phone number

[AC52] Message serial number: 44114

Terminal registration response

[0000] Corresponding terminal registration message serial number: 0

[00] Result: 0 = success

[62736A677073]Authentication code: bsjgps

[C6]Verification code

0102 Terminal authentication

Protocol data: 7E01020006013267937018000162736A677073B47E

[0102]Message ID

[0006]Protocol data length: 6

[013267937018]Terminal mobile phone number

[0001]Message serial number: 1

Terminal authentication

[62736A677073]Authentication code: bsjgps

[B4]Verification code

8001General response

Protocol data: 7E80010005013267937018AC760001010200F37E

[8001]Message ID

[0005] Data length of the protocol part: 5

[013267937018] Terminal mobile phone number

[AC76] Message serial number: 44150

Platform general response

[0001] Corresponding terminal message serial number: 1

[0102] Corresponding terminal message ID: 258

[00] Result: 0 = Success/Confirmation

[F3] Verification code

0200 Position information report

Protocol data: 7E0200007901326793701800060000000000000001000000000000000000000000000024071706370001040000000030011C310100EB4F000C00B28986049701217007311000060089FFFFFFFF000600C5FFFFFFE70003010204000400CE0179000B00D801CC0025540D89B14A0004002D0EA0001100D5383635373330303736313136363836BF7E

[0200]Message ID: 512

[0079] Protocol data length: 121

[013267937018] Terminal mobile phone number

[0006] Message serial number: 6

Position information report

Position basic information = 000000000000000100000000000000000000000000000240717063700

[00000000] 808 alarm bit: 0

[00000001] 808 status bit: 1

bit0 1: ACC on

bit1 0: Not positioned

bit2 0: North latitude

bit3 0: East longitude

bit4 0: Operation status

bit5 0: Longitude and latitude are not encrypted by the confidentiality plug-in

bit8-9 00: Empty vehicle

bit10 0: Vehicle oil circuit is normal

bit11 0: Vehicle circuit is normal

bit12 0: Door unlocked

bit13 0: Door 1 closed

bit14 0: Door 2 closed

bit15 0: Door 3 closed

bit16 0: Door 4 closed

bit17 0: Door 5 closed

bit18 0: Not using GPS satellites for positioning

bit19 0: Not using Beidou satellites for positioning

bit20 0: Not using GLONASS satellites for positioning

bit21 0: Not using Galileo satellites for positioning

bit22 0: Vehicle is stopped

[00000000] Latitude: 0.000000°

[00000000] Longitude: 0.000000°

[0000] Elevation (m): 0

[0000] Speed ​​(1/10km/h): 0

[0000] Direction: 0

[240717063700] Time: 06:37:00, July 17, 2024

List of additional information items for location

[01] Additional information ID [04] Additional information length

[00000000] Mileage (1/10km): 0

[30] Additional information ID [01] Additional information length

0x30 = Wireless communication network signal strength

[1C] Signal strength: 28

27-255 Excellent network signal

[31] Additional information ID [01] Additional information length

0x31 = Number of GNSS positioning satellites

[00] Number of satellites: 0

[EB] EB extension [4F] EB extension length

[00B2] EB extension information ID [000C] Information length

[89860497012170073110]ICCID number:89860497012170073110,

[0089]EB extended information ID [0006]Information length

[FFFFFFFF]0089 extended alarm status bit:[Normal],

[00C5]EB extended information ID [0006]Information length

[FFFFFFE7]00C5 extended alarm 2 status bit:[Not positioned],

[0102]EB extended information ID [0003]Information length

[04]Upload GSM signal strength level:04

[00CE]EB extended information ID [0004]Information length

[0179]External voltage value upload:3.77V,

[00D8]EB extended information ID [000B]Information length

[01CC0025540D89B14A] Single base station upload (4G):

[01CC] Country code: 460,

[00] Operator code: unknown,

[2554] Area code: 9556,

[0D89B14A] Tower number: 227127626,

[002D] EB extended information ID [0004] Information length

[0EA0] Built-in voltage value upload: 3.744V

[00D5] EB extended information ID [00D5] Information length

[383635373330303736313136363836] IMEI upload: 865730076116686

[BF] Check code

EB extension 0089 full definition:

State [31~0]

bit0: 1 battery switch - off; 0 battery switch - on (Battery)

bit1: 1 Normal terminal status; 0 Terminal sleep status (sleep)

bit2: 1 Normal; 0 Driving without card swiping

bit3: 1 Normal; 0 Speeding during time period

bit4: 1 Normal; 0 Collision alarm

bit5: 1 Evaluator access is normal, 0 Evaluator access is abnormal

bit6: 1 Top cover closed; 0 Top cover not closed bit7: 1 Carriage not lifted; 0 Carriage lifted

bit8: 1 Normal; 0 Rapid acceleration alarm Note: The sign is maintained until the alarm condition is lifted

bit9: 1 Normal; 0 Rapid deceleration alarm Note: The sign is maintained until the alarm condition is lifted

bit10: 1 Acceleration sensor normal; 0 Acceleration sensor abnormal

bit11: 1 Normal; 0 Illegal displacement alarm

bit12: 1 Normal; 0 Illegal removal

bit13: 1: Normal 0: High temperature alarm

bit14: 1: Normal 0: Low temperature alarm

bit15: 1: Normal 0: Vibration alarm

bit16: 1: Normal 0: Cut alarm (ultrasonic oil sensor)

bit17: 1: Normal 0: Power failure alarm (receive response to release)

bit18: 1: Normal 0: Idle alarm (receive response to release)

bit19: 1 LED advertising screen access is normal, 0 LED advertising screen failure or not connected

bit20: 1 meter access is normal, 0 meter failure or not connected

bit21: 1 multi-function screen access is normal, 0 multi-function screen failure or not connected

bit22: 1 normal, 0 material shortage alarm bit23: 1 normal, 0 abnormal video connection status

bit24: 1 ACC normal, 0 ACC disconnection alarm bit25: 1: normal 0: sharp turn alarm

bit26: 1: normal 0: ACC from off to on alarm prompt

bit27: 1: main power switch normal 0: main power switch abnormal

bit28: 1: burner switch normal 0: burner switch abnormal

bit29: 1: vibration alarm switch off 0: vibration alarm switch on

bit30: 1: normal 0: fake base station detected

bit31: 1: normal 0: fake base station alarm

EB extension 00C5 complete definition:

State[0~31] The default value is 0xFFFFFFFF

Bit0: 1: Software off-off 0: Soft switch-on

Bit1: 1: Waybill mode-off 0: Waybill mode-on

Bit2: 1: Not charging 0: Charging

Bit3/Bit4 Positioning status

Bit3=0 Bit4=0 Not positioning (meaning that neither GPS nor WIFI is positioning)

Bit3=1 Bit4=0 GPS positioning Bit3=0 Bit4=1 WIFI positioning

Bit5: 1: Not unloading 0: Unloading

Bit6: 1: Normal 0: Vibration alarm

Bit7: 1: Normal 0: Collision alarm

Bit8: 1: Disarm 0: Arm

Bit9: 1: Still 0: Moving

Bit10/Bit11 Working mode

Bit10=1 Bit11=1 Normal working mode Bit10=0 Bit11=1 Deep power saving mode

Bit10=1 Bit11=0 Smart power saving mode

Bit12: 1: Not forced to open GPS 0: Forced to open GPS (Forced to open GPS means that the GPS power must be turned on to search for wifi signals, power off or set to turn off forced to open GPS)

Bit13: 1: Wired mode 0: Wireless mode

Bit14: 0: See light 1: No light

Bit15: 1: G-Sensor mode 0: Non-G-Sensor mode

Bit16: 1: Normal infrared 0: Abnormal infrared

Bit17: 1: Normal pressure 0: High pressure pressure alarm

Bit18: 1: Recorder normal 0: Recorder abnormal GH01

Bit19/Bit20 positioning mode

Bit19=0 Bit20=1 Indicates single Beidou positioning

Bit19=1 Bit20=0 Indicates single GPS positioning

Bit19=0 Bit20=0 Indicates dual-mode positioning

Bit21=0 Overspeed reminder Bit21=1 Oil circuit function

Bit22=0 Oil circuit disconnected Bit22=1 Oil circuit normal

Bit23=0 Traffic restriction alarm Bit23=1 Normal

Bit24=0 Undervoltage protection state Bit24=1 Normal state

Bit25=0 Low power mode Bit25=1 Non-low power mode

Bit26=0 Client mode Bit26=1 BSJ mode

Bit27=0 Left turn overspeed alarm Bit27=1 Normal

Bit28=0 Right turn overspeed alarm Bit28=1 Normal

Bit29=0 Infrared 1 triggered Bit29=1 Infrared 1 not triggered

Bit30=0 Infrared 2 triggered Bit30=1 Infrared 2 not triggered

Bit31=0 Infrared 3 triggered Bit31=1 Infrared 3 not triggered

8300 platform text sent

Protocol data: 7E83000008013267937018B82C013C434B42534A3EE07E

[8300] message ID: 33536

[0008] Protocol data length: 8

[013267937018] Terminal mobile phone number

[B82C] Message serial number: 47148

Text message sent

[01] Flag: 1

Bit0: Emergency

[3C434B42534A3E] Text message: <CKBSJ>

[E0] Check code

6006 device reports text message

Protocol data

[6006]Message ID: 24582

[00FD]Data length of protocol part: 253

[013267937018]Terminal mobile phone number

[000A]Message serial number: 10

[00]BG2312 Encoding method



Text message content: <BSJ\*N:13267937018\*T:8.217.103.61,7788\*CGREG:1\*CSQ:27\*GPS:(OK,5,0) \*A:,,\*ICCID:89860497012170073110\*C:30\*O:300\*CS:0\*3U:0\*3Z:1\*H:300\*2A:1\*GP:OK\*5C:1\*3P:2\*BAT:3765\*60:1\*5Y:3.5\*9E:00:00\*1H:1\*68:1\*CP:1800,02,05,090\*3D:000000\*8X:0\*8Y:0\*8Z:0\*2S:0\*I:\*B:2\*1S:0>

[3D] The verification code