GPS Tracker Communication Protocol

1. Summarize

This tracker connects to platform server with TCP. The way for connection is that device connects to the platform server forwardly. After connecting to the platform server, the tracker will pass back a enrolling message. The enrolling message contains the device's ID. If the device received the answer from the platform server, it will stop to sending enrolling message but send continuous feedback message. The continuous feedback message not contains the device ID. The platform server binds the device by connection. One connection represents a device ID. When the connection cuts off, the device will connect the platform server automatically and send out a device enrolling message. Beside, the device will send out one hand-shaking message intervals of time. The hand-shaking message contains Device ID. After receiving the handshaking answer message from the platform server, the device waits for sending the handshaking message in next period.

NOTE: After the V1.8 agreement, the equipment issued in 12-bit serial number of data packets into : 0 + 11-bit device number, so that platforms do not need to bind the device depending on the connectivity, according to each packet in the device number to tie fixed equipment, platforms dealing with them will be simpler.

1.1 Updated Version Instruction

V1.4 2008/10/23	 Increase setting the data send intervals of ACC Switch Increase the controlling of device's restarted command
V1.5 2008/11/4	1. Increase the setting Geo-fence command
V1.6 2009/9/2	1. Change some errors.
V1.7 2008/12/22	1, increase the monitoring command, refer to 3.1.16, and 3.2.16
	2, increasing the setting in- border electronic fence function, refer to 3.1.14, and 3.2.14
	3, increasing the set ting IP address and port information, refer to 3.1.17, and 3.2.17

	4, increasing the setting up APN information, refer to 3.1.18, and 3.2.18.
	5, increasing the reading the terminal version of the message, refer to 3.1.19, and 3.2.19
V1.8 2008/12/29	1, the equipment, issued the 12-bit serial number of data packets into: 0 + 11-bit device number, the other unchanged. the 12 serial number can be any number Platform response, equipment untouched.
V1.9 2009/3/12	1, increasing the abolition of all police instructions, refer to 3.1.20, and 3.2.20
	2, increasing mileage Clear instructions, refer to 3.1.21, and 3.2.21
	3, increasing start upgrade instructions, refer to 3.1.22, and 3.2.22
V1.9.1 2009/5/4	1, increase mileage initialization instructions, refer to 3.1.23, and 3.2.23
V2.0 2009/8/6	1, increasing center send a short message to the dispatching screen, refer to 3.1.24, and 3.2.24
	2, increasing scheduling screen send a short message to the central, reference 3.1.25 and 3.2.25
	3, increase the Center-send instant advertising messages to the advertising screens, refer to 3.1.26, and 3.2.26
V2.1 2009/9/1	1, increasing data compensation instructions, refer to 3.2.27
	2, increasing request photographed instructions, refer to 3.1.28, and 3.2.28
	3, increasing the request to send picture data packet instructions, refer to 3.1.29, and 3.2.29

2. Message Instrument

2.1 Data Type definition

Data Type	Instruction					
CHAR	Single ASCII code character					
C_STRING	Contain ASCII character string. When fix digits, fill in					
	Binary system of bank(0x20H)on right for lacking digit to					
	fix a long time except for special instruction.					
N_STRING	Contain the digit character string of 0.9. When fix digits,					
	fill in ASCII code 0(Ox30H) on left for lacking digit					
	except for special instruction.					
H_STRING	Contain the digit character string of O. F. When fix digits,					
	fill in ASCII code 0(Ox30H) on left for lacking digit					
	except for special instruction.					
HEX_STRING	Hexadecimal system character string. Such as 1, use "31"					
	for indication. When fix digits, fill in ASCII code 0					
	(Ox30H) on left for lacking digit except for special					
	instruction.					
BIN	Binary system data					
BYTE	8 digits without symbol integer, 0255					

2.2 Message format

GPS Tracker exchanges the information with network gateway through data frames transmitting, using TCP protocol. Full data frames structure definition for GPRS is as following:

Head	Serial number	Command	Message Body	Trail
	/ Time			
1 byte	12 byte	4 byte	N byte (N≤1K)	1byte

Each Full data frame must contain: Head symbol, Serial Number/ Time, Command word, Message body, Trail symbol

2.3 Message field definition Y

2.3.1 Head/Trail symbol digit

Symbol digit figures the beginning and ending of the message frame. 0x28H (character "(") as beginning symbol, and 0x29H (character ")") as ending symbol.

2.3.2 Terminal ID

Length: 12 bytes, C_STRING character

Function: This field is used to bind device, each message contains a device number, platform, device ID through binding equipment. General Device ID format is "0" + "phone number." Reference format as follows: "013,632,782,450"

2.3.3 Command word

Length: 4 bytes, C_STRING character

Function: Define the type of operated message for data frame transmitting, and

figures the function of data. The definition is as following,

Table 2 Message Definition

Main first types of Message	Second types of Message	Message serial NO. #	Command description	Remark
		00	One time enquiry message 3.1.5	
		01	Answer handshake signal message 3.1.1	
		03	Set the terminal IP address and port 3.1.17	
	P	04	Set APN News 3.1.18	•
A		05	Device login response message 3.1.2	
(Down		07	Read the terminal version	
Message)			message 3.1.19	
		11		
		12	Setting vehicle high and low limit speed 3.1.8	Device
		15	Monitor Command 3.1.16	parameter
		16	Download group number 3.1.30	message
		17	Request cancel group number3.1.31	
		18	Request upload group number3.1.32	
		19	Response upload group number3.1.33	
		20	Ask for the current black and white list 3.1.35	
		21	Ask for the driver on duty 3.1.37	
		22	ask for the software version of the empty taxi lamp3.1.38	

		00	center send a short message to the dispatching screen3.1.24		
		01	center sends instant message to the advertising screen3.1.26		
			Center sends messages for		
		02	cutting off the real-time advertisement to the advertising screen3.1.42		
			Center sends messages of increasing	General communic	
	Q	03	the conventional Advertisement to the advertising screen.3.1.43	ation	
		04	Center sends messages for canceling all of Conventional Advertisement to	message	
		_	the advertising screen 3.1.44		
		05	On-call certer sends messages to the driver on duty3.1.47		
		06	Center sends messages for canceling sending Conventional Advertisement to the advertising screen3.1.48		
		00	Same time continues feedback configure 3.1.3		
	R	01		Vehicle	
		03	To obtain terminal location response message3.1.15	positionin g	
		05	Set ACC open sending data intervals 3.1.12	Message	
		06	Set ACC shut sending data intervals 3.1.13		
		01	Answer Alarm Message 3.1.4		
		07	Answer dispatching screen to		
	S		send short message to center 3.1.25	Answer message	
		23	Response driver message3.1.40	mossage	
		24	Response taxi trade record3.1.41		
	Т	00	Control the restarted message of the device 3.1.11		
		00	Circuit control signal 3.1.9	C	
		01	Oil control signal 3.1.10	Control signal	
	V	02	Cancel of all alarm messages 3.1.20	Sigilal	
		03			
	X	00		Expandin	

		01	Mileage Clear Message 3.1.21	g message	
		02	Start Upgrade Message 3.1.22		
			Initialization message for mileage 3.1.23		
		04			
		05	Setting Geo-fence Message 3.1.14		
		06	Set up passing back messages of timing open and close oil consumption.3.1.34		
		07	Setting up passing back messages of timing open and close Temperature 3.1.45		
		08	Setting up regularly opening and closing direct communication message3.1.46		
		11	Download the software of the empty taxi lamp3.1.39		
		10	Download the file of black and white list 3.1.36		
		01	Request to tanken photo message 3.1.28	Photo	
Y		02	Request to send picture data packet message 3.1.29	message	
		03	Set up intervals and times of taking timing pictures 3.1.49		
		01	Alarm message 3.2.4	Alarm	
	О	02	Alarm for data offset and messages return 3.2.33	message	
		00	Handshake signal message 3.2.1		
		01	Response to reading the terminal version message 3.2.19	Device	
B (Up Message)		02	Answer to Setting up the terminal IP address and port 3.2.17	status message	
	Р	03	Answer to Setting APN message 3.2.18		
		04	Answer to Message of calling the roll. 3.2.5		
		05	login message 3.2.2		
		12	Answer vehicle high and low		
			speed limit 3.2.8		

		T	
	16	Answer to download group	
		numbers3.2.30	
	17	Answer to canceling group	
		numbers3.2.31	
	18	Upload group numbers 3.2.32	
	19	Passing back oil messages	
		regularly and	
		continuously.3.2.34	
	20	Passing back temperature	
		messages regularly and	
		continuously.3.2.46	
	21	Passing back direct	
	21	communication message	
		regularly and continuously	
		3.2.48	
	22	3.2.70	
	23	Unland driver magaga 2.2.41	
		Upload driver message3.2.41	
	24	Upload taxi trading	
	00	record3.2.42	
	00	Isochronous and continues	
	0.1	feedback message 3.2.6	
D	01	compensation Data return	
R	02	messages 3.2.27	
	02	Continuously passing back	
	0.2	ending message3.2.7	
	03	Obtain terminal location	
	0.4	information3.2.15	Vehicle
	04	Dispatch screen sends a short	positionin
		message to the centerr 3.2.25	g message
	05	Answer the Setting ACC open	
		sending data intervals 3.2.12	
	06	Answer the Setting ACC close	
		sending data intervals 3.2.13	
		Schaing data intervals 3.2.13	
	07	The LCD display screen send	
		rob Vehicle message to the	
		center3.2.51	
	04	Answer to Clearing mileage	
		Messages 3.2.21	
	05	Answer to starting the upgrade	Answer
S		message 3.2.22	message
	06	Answer to initialization mileage	
	00	message 3.2.23	
	<u> </u>	message 3.2.23	

08	Response to set up passing back	
	the isochronal and continuous	
	message e 3.2.3	
09	Response to Center send an	
	instant message to the	
	advertising screen 3.2.26	
10	Response to Download the file	
	of black and white list3.2.37	
11	Response Download the	
	software of the empty taxi lamp	
	(Upgrade of the software	
	version) 3.2.40	
20	Response monitoring command	
	3.2.16	
21		
	Response to cancel all alarm	
22	messages 3.2.20	
23	Answer to Center sends short	
	messages to the dispatching	
	screen 3.2.24	
24	Response to Setting up opening	
	and closing the timing feedback	
	oil message 3.235	
25	Response the current list of	
	black and white message3.2.36	
26	Response to ask driver on duty	
	3.2.38	
27	Response to ask for the software	
	version of the empty taxi	
	lamp3.2.39	
28	Response to Center send	
	Interrupt instant message to the	
	advertising screen 3.2.43	
29	Response to Center sending	
	messages for increasing	
	Conventional Advertisement to	
	adventising screen. 3.2.44	
30	Response to Center send	
	canceling all of Conventional	
	information to the advertising	
	screen 3.2.45	
31	Answer to Setting up regularly	
	opening and closing feedback	
	Temperature message 3.2.47	
32		
	Response Issue telephone	
	message 3.2.50	

	33	Response to Center messages for canceling sending Conventional Advertisement to the advertising screen3.2.52	
Т	00	Answer the restarted message of the device 3.2.11	
U	00	Answer the Setting Geo-fence Message 3.2.14	
V	00	Answer to circuit control 3.2.9	Answer control
	01	Answer to oil control 3.2.10	sign
Y	01	Answer to request photo taking messages 3.2.28	Photo message
	02	Send the picture data packet message 3.2.29	

In order to facilitate reading the agreement, the x value in 3.1.x and 3.2.x is the same as the corresponding message

2.3.4 Message body

Length: no fixed,<=1024 bytes, also can be blank.

Function: Confirm the server data message under corresponding command.

3. Command Message

3.1.Downlink Message (platform server sending)

3.1.1 Answer handshake signal message

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	AP01	C_STRING	4	
word				
Message	Message	C_STRING	3	

body	content					
Message	HSO					
content						
Ending)	CHAR	1			
identifier						
For example:						
(01361234567	8 AP01 HSO)					
Down response	Down response handshake signal message, "13612345678" is tracker ID.					
Response	No need response					
Instruction:	This message is available to all device					

3.1.2 Device login response message

Message	Message	Type	Length	Instruction		
Field	Value		(Character)			
Beginning	(CHAR	1			
identifier						
		C_STRING	12			
Command	AP05	C_STRING	4			
word						
Message	Message	C_STRING	non			
body	content					
Message						
content						
Ending)	CHAR	1			
identifier						
For example	For example					
(013612345678 AP05)						
"13612345678" is tracker ID.						
Instruction:	This message is available to all device					

3.1.3 Same time continues feedback configure

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	

Number						
Command	AR00	C_STRING	4			
word						
Message		C_STRING	8			
Body						
Message	AR00XXXXX					
Content	AR00: Fixed XXXX: Interv	•	ge of continues	s feedback. hex . Unit:		
	Second, 4 cl	naracters in all,	H_STRING.	The max is 0xFFFF		
		*	-	ontinues feedback.		
	YYZZ: The t	otal time for feed	back, 16 advand	ce system. Unit: YY:		
	Hour, ZZ: Minute. 4 characters in all, H_STRING, The max is					
	0xFFFF, ie:2	255 hours 255 mii	nutes. When Y	YZZ = 0, according to		
	the time interv	vals, continues fee	edback.			
	When both XXXX and YYZZ are not 0, it figure that feedback					
	according to the time intervals, when it up to the total time, it					
	automatically stop to feedback					
Ending)	CHAR	1			
identifier						

For example	:					
(0136123456	578 AR00 00140024)					
Down fixe	ed time to set continues feedback. Feedback GPS data every 20 (16*1 +					
4) seconds a	and feedback 36 (16 * 2 + 4) minutes in all. "13612345678" is tracker					
ID.						
Response	Device response BS08					
Sending	Short Message, GPRS					
mode						
Instruction	This message is available to economic device and navigation device.					
	In the mode of SMS to continues feedback, if set time interval is less					
	than the Min time interval (Set by the device manufacturer),it will					
	continues feedback according to the Min time interval, otherwise					
	continues feedback according to the set time. The data mode is the					
	same as the SMS mode.					

3.1.4 Answer Alarm Message

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				

Equipment		C_STRING	12	
Number	<u> </u>	<u> </u>		
Command	AS01	C_STRING	4	
word				
Message body		C_STRING	1	
Message	AS01X			
Content	X: The type	of alarm for BO	01X up alarm r	nessage.1character,16
	advance syste	m, ASCII charac	ter	
	0: Cut off vehicle oil 1: Happen accident			
	2: Vehicle rob	(SOS help)	3: Vehicle an	ti-theft alarm
	4: Vehicle lo	w speed alarm	5: Vehicle ov	er speed alarm
	6.:Alarm out of	of Geo-fence	7: Movement	alarm
Ending)	CHAR	1	
identifier				
For example:				
(013612345678	8 AS01 2)			
Answer the up	vehicle rob poli	ce, "1361234567	8" is tracker ID	
Response	No need respon	se		
Instruction:	This message is	available to all	device	

3.1.5 One time enquiry message

Message	Message	Type	Length	Instruction		
Field	Value	31	(Character)			
Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command	AP00	C_STRING	4			
word						
Message	Message	C_STRING	0			
body	content					
Message						
body						
Ending)	CHAR	1			
identifier						
For example:						
(013612345678 AP00)						
Closed the oil.	Closed the oil."13612345678" is tracker ID.					
Response	esponse Device response BP04					

Instruction:	This message is available to all device

3.1.8 Setting vehicle high and low limit speed

Message Field	Message Value	Туре	Length (Character)	Instruction			
Beginning	(CHAR	1				
identifier							
Equipment		C_STRING	12				
Number							
Command	AP12	C_STRING	4				
word							
Message	Message	C_STRING					
Body	content						
Message	H050L030	H050L030					
Content							
Ending)	CHAR	1				
identifier							
For example:							
(01361234567	78 AP12 H050L0	030)					
Setting the up	Setting the up limit speed is50km/h,low limit is 30km/h.When up limit is 000,it						
figures cancel alarm up limit, and When down limit is 000, it figures cancel alarm							
down limit. Less 3 digits of the speed, full 0 on left. Alarm refer to 3.2.4 .							
"13612345678" is tracker ID.							
Response	BP12						
Instruction:	This message is available to all device						

3.1.9 Circuit control signal

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	

Number						
Command	AV00	C_STRING	4			
word						
Message	Message content	C_STRING				
Body						
Message	"1"or"0", "1"	figures opening ci	rcuit,"0"figures c	closing circuit.		
Content						
Ending)	CHAR	1			
identifier						
For example:						
(01361234567	(013612345678 AV00 0)					
Closed the circuit, "13612345678" is tracker ID.						
Response	BV00					
Instruction:	This message is available to all device					

3.1.10 Oil control single

Message	Message	Type	Length	Instruction		
Field	Value		(Character)			
Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command word	AV01	C_STRING	4			
Message body	Message	C STRING				
	content	_				
Message	"1"or"0", "1"figures opening oil, "0"figures closing oil.					
content						
Ending)	CHAR	1			
identifier						
For example:						
(01361234567	8 AV01 0)					
Closed the oil.	Closed the oil。"13612345678" is tracker ID.					
Responds: 1	BV00					
Instruction:	This message is available to all device					

3.1.11 Control the restarted message of the device

Message Field	Message Value	Type	Length (Character)	Instruction	
Beginning identifier	(CHAR			
Equipment Number		C_STRING	12		
Command word	AT00	C_STRING	4		
Message body	Message Content	C_STRING			
Message content	no				
Ending identifier)	CHAR	1		
For example					
`	(013612345678 AT00)				
Reboot the device. "13612345678" is tracker ID.					
Response	BT00				
Instruction:	This message is available to all device				

3.1.12 Set ACC open sending data intervals

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	AR05	C_STRING	4	
word				
Message body	Message	C_STRING		
	content			
Message	AR05XXXX			
content	AR05: Fixed	l keywords		
	XXXX: The	time for sending of	data intervals for	the ACC Open, hex.
	Unit: Second	1		
Ending)	CHAR	1	
identifier				
For example				

(0136123456	(013612345678 AR05 0014)				
It sends back	It sends back intervals 20 seconds when the ACC is opening. "13612345678" is				
tracker ID.					
Response	BR05				
Instruction:	This message is available to all device				

3.1.13 Set ACC close sending data intervals

Message	Message	Туре	Length	Instruction	
Field	Value		(Character)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command word	AR06	C_STRING	4		
Message body	Message content	C_STRING			
Message	AR06XXXX				
content	AR06: Fixed	l keywords			
	XXXX: The	e time for sendin	g data intervals	for the ACC Open,	
			8	- · · · · · · · · · · · · · · · · · · ·	
	Hex. Unit: S	econd			
Ending)	CHAR	1		
identifier					
For example					
(013612345678	BAR06003C)				
It ganda haals	intervals 20 se	aganda xyban tha	ACC is alosing	"12612245670" ia	
It sends back intervals 20 seconds when the ACC is closing. "13612345678" is					
tracker ID.					
Response I	BR06				
Instruction:	This message is available to all device				

3.1.14 Setting Geo-fence Message

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	

Number						
Command	AX05	C_STRING	4			
word						
Message body	Message content	C_STRING				
Message	AX05 N,D,	Minlatitude,	Maxlatitude,	G, Minlongitude,		
content	Maxlongitude					
	AX05: Fixed	l Keywords				
	N: "0" , "1"or"2", "0", figures cancel outside and inside-fence, "1" figures sets outside-fence."2"fogures inside-fence. If for canceling the Geo-fence, the back data cannot be sent. D: Standard for latitude, N, north latitude; S: south latitude. Minlatitude: lower limit for latitude, Format: DDFF.FFF, DD:					
Ending identifier)	CHAR	1			
For example	I		I	l		
	8 AX051, N,224	5.318,2246.452,E	2,11233.232,1135	5.175)		
Set Geo-fence	lower limit for	latitude is 22 d	egree 45. 318 a	cent, upper limit for		
	Set Geo-fence., lower limit for latitude is 22 degree 45. 318 cent, upper limit for latitude is 22 degree 46.452 cent; lower limit for longitude is 112 degree 33.232					
cent, upper limit for longitude is 113 degree 55.175 cent. "13612345678" is tracker						
ID.						
Response	BU00					
Instruction:	This message is available to all device					

3.1.15 To obtain the terminal location response message

Message	Message	Туре	Length	Instruction		
Field	Value		(Character)			
Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command	AR03	C_STRING	4			
word						
Message body	Message	C_STRING				
	content					
Message	Content of the	e message = loca	ation data length -	location data		
content		· ·	C			
	Location data	Location data length: BYTE type, a byte, less than 140				
	Location data: BYTE type, length is less than 140, encoding for					
	Unicode enco	Unicode encoding, a character or the total number of two bytes, a				
	maximum of 70 characters can be coded transmission.					
	Note that is not a GB2312 encoding.					
Ending)	CHAR	1			
identifier						
For example		•				

For example

The request message is

(013632782450**BR03**080525A2934.0133N10627.2544E000.0141830309.6200000000L200300

C6)

Server response messages is

(081129141850AR03 0x72 0x6D, 0xF1, 0x00, 0x41, 0x00, 0x38, 0x00, 0x37, 0x00, 0x4A, 0x00, 0x35, 0x00, 0x38, 0x4F, 0x4D, 0x7F, 0x6E, 0x4E, 0x3A, 0x00, 0x3A, 0x5E, 0x7F, 0x4E, 0x1C, 0x77, 0x01, 0x6D, 0xF1, 0x57, 0x33, 0x5E, 0x02, 0x5E, 0x02, 0x53, 0x3A, 0x6D, 0xF1, 0x57, 0x33, 0x6C, 0x7D, 0x8F, 0x66, 0x7A, 0xD9, 0x6B, 0x63, 0x53, 0x57, 0x00, 0x32, 0x00, 0x2E, 0x00, 0x35, 0x51, 0x6C, 0x91, 0xCC, 0x5D, 0xE6, 0x53, 0xF3, 0x00, 0x3B, 0x8D, 0x5B, 0x68, 0x3C, 0x79, 0xD1, 0x62, 0x80, 0x56, 0xED, 0x96, 0x44, 0x8F, 0xD1, 0x00, 0x2C, 0x00, 0x30, 0x00, 0x38, 0x5E, 0x74, 0x00, 0x31, 0x00, 0x31, 0x67, 0x08, 0x00, 0x32, 0x00, 0x39, 0x65, 0xE5, 0x00, 0x31, 0x00, 0x34, 0x65, 0xF6, 0x00, 0x31, 0x00, 0x38, 0x52, 0x06)

Binary appear as:

28 30 38 31 31 32 39 31 34 31 38 35 30 41 52 30 33 72 6D F1 00 41 00 38 00 37 00 4A 00 35

00 38 4F 4D 7F 6E 4E 3A 00 3A 5E 7F 4E 1C 77 01 6D F1 57 33 5E 02 5E 02 53 3A 6D F1 57 33 6C 7D 8F 66 7A D9 6B 63 53 57 00 32 00 2E 00 35 51 6C 91 CC 5D E6 53 F3 00 3B 8D 5B 68 3C 79 D1 62 80 56 ED 96 44 8F D1 00 2C 00 30 00 38 5E 74 00 31 00 31 67 08 00 32 00 39 65 E5 00 31 00 34 65 F6 00 31 00 38 52 06 29

the sent contents is "SHEN A87J58 location: Shenzhen, Guangdong Province, Shenzhen city bus station south of about 2.5 km; SEG Science and Technology Park in the vicinity, at 2:18 p.m. on November 29, 2008." If the request by the dimension is0, can return to the "Terminal does not target."

Response	none
Instruction:	This message is available to all device

3.1.16 Monitor Command

	77: 11 1	T.	T .1	T	
Message	Field value	Type	Length	Instruction	
Field			(byte)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command	AP15	C_STRING	4		
word					
Message body	Message	C_STRING			
	Content				
Message	AP15 + NNNN				
content	NNNN: the ph	none number of the	equipment dials, l	length is not fixed.	
Ending)	CHAR	1		
identifier					
Example::					
(013612345678 AP15 13632782450)					
After the terminal response, it will call "13632782450".					
Response	BS20				
Instruction:	This message is	available to all d	evice		

3.1.17 Set the terminal IP address and port

Message	Field value	Туре	Length	Instruction	
	1 icia value	Турс		mstruction	
Field			(byte)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command	AP03	C_STRING	4		
word					
Message body	Message	C_STRING			
	Content				
Message	AAABBBCCC	DDDEEEEE AAA	A, BBB, CCC,	DDD is the IP address,	
content	EEEEE is the p	ort.			
Ending)	CHAR	1		
identifier					
Example::					
(013612345678	(013612345678 AP03 22101807911000123)				
set the terminal IP address 221.18.79,110 port is 123					
Response	BS20				
Instruction:	This message is	available to all d	evice		
Example: : (013612345678 set the terminal II Response	P address 221.18.7 BS20	9,110 port is 123	evice		

3.1.18 Set APN message

Message	Field value	Туре	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	AP04	C_STRING	4	

word					
Message body	Message	C_STRING			
	Content				
Message	Length is not fit	xed, based on user in	nput required		
content					
Ending)	CHAR	1		
identifier					
Example::					
(013612345678	SAP04CMNET)				
set the terminal APN to CMNET					
Response	BP03				
Instruction:	This message is available to all device				

3.1.19 Reading Terminal version message

Message	Field value	Туре	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	AP07	C_STRING	4	
word				
Message body	Message	C_STRING		
	Content			
Message				
content				
Ending)	CHAR	1	
identifier				
Example::				
(013612345678 A	.P07)			

Response	BP01
Instruction:	This message is available to all device

3.1.20 Cancel of all alarm messages

Message	Field value	Туре	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	AV02	C_STRING	4	
word				
Message body	Message	C_STRING		
	Content			
Message				
content				
Ending)	CHAR	1	
identifier				
Example::				
(013612345678	AV02)			
Response 1	BS21			
Instruction:	This message is	available to all	device	

3.1.21 Mileage Clear Message

Message	Field value	Type	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				

Equipment		C_STRING	12	
Number				
Command	AX01	C_STRING	4	
word				
Message body	Message	C_STRING		
	Content			
Message				
content				
Ending)	CHAR	1	
identifier				
Example::				
(013612345678 AX01)				
Response	BS04			
Instruction:	This message is	s available to all d	levice	

3.1.22 Start to Upgrade Message

Message	Field value	Туре	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	AX02	C_STRING	4	
word				
Message body	Message	C_STRING		
	Content			
Message	A.B.C.D: P			
content	A, B, C, D is the upgrading server IP address			
	P is the upgrade	ed server port,		

Ending)	CHAR	1		
identifier					
Example::					
(013612345678	AX02116.87.12.168	: 123)			
the upgrade	server IP address	is116.87.12.168, p	ort is123. after	the terminal response to	
connect to the up	odate server upgrad	e. After the upgrade	e is complete, it	will return to the original	
platform, all of the	platform, all of the setting parameters will not change.				
Response	BS05				
Instruction:	This message is	available to all d	evice		

3.1.23 Initialization message for mileage

Message	Field value	Туре	Length	Instruction			
Field		-31	(byte)				
Beginning	(CHAR	1				
identifier		CITAC					
		G CERRIC	10				
Equipment		C_STRING	12				
Number							
Command	AX03	C_STRING	4				
word							
Message body	Message	C_STRING					
	Content						
Message	XXXXXXXX	XXXXXXX					
content	XXXXXXXX is Initialization mileage value, 8-bit 16 hex ASCII value, unit						
	of meters.		1				
Ending)	CHAR	1				
identifier							
Example::							
(013612345678	BAX030000ABCD)					
set the initial n	nileage is A * 0x	1000 + B * 0x100	0 + C * 0x10 +	D = 43.981 km.			
Response	BS06	BS06					
Instruction:	This message is	available to all d	evice				

3.1.24 Center sends a short message to the dispatching screen

Field value	Туре	Length	Instruction	
		(byte)		
(CHAR	1		
	C_STRING	12		
AQ00	C_STRING	4		
Message	C_STRING			
Content				
L + CCC				
L: is content ler	ngth, a byte hexaded	cimal value		
CCC: is the sh	nort message conte	nt, GB2312 enco	oding or standard ASCII	
code, 16 hex va	lues, a two-byte cha	aracters, an ASCI	I one byte.	
)	CHAR	1		
AQ00 0x18 0x53	0x68 0x65 0x6E	0x7A 0x68 0x65	0x6E 0x20 0x48 0x6F	
x75 0x61 0x6E 0	x20 0x58 0x79 0x7	4 0x6F 0x6E 0x6	7)	
, "0x53 0x68 0x	x65 0x6E 0x7A 0x6	8 0x65 0x6E 0x2	0 0x48 0x6F 0x6E 0x67	
x6E 0x20 0x58 (0x79 0x74 0x6F 0x	x6E 0x67" is S	SMS content: Shenzhen	
ng				
3S23				
	(CHAR C_STRING AQ00 C_STRING Message C_STRING Content L+CCC L: is content length, a byte hexaded CCC: is the short message content code, 16 hex values, a two-byte character CHAR CHAR AQ00 0x18 0x53 0x68 0x65 0x6E x75 0x61 0x6E 0x20 0x58 0x79 0x7 "0x53 0x68 0x65 0x6E 0x7A 0x6 x6E 0x20 0x58 0x79 0x74 0x6F 0x g 3S23	(byte) (CHAR 1 C_STRING 12 AQ00 C_STRING 4 Message C_STRING Content L+CCC L: is content length, a byte hexadecimal value CCC: is the short message content, GB2312 encocode, 16 hex values, a two-byte characters, an ASCI) CHAR 1 AQ00 0x18 0x53 0x68 0x65 0x6E 0x7A 0x68 0x65 x75 0x61 0x6E 0x20 0x58 0x79 0x74 0x6F 0x6E 0x6 , "0x53 0x68 0x65 0x6E 0x7A 0x68 0x65 0x6E 0x2 x6E 0x20 0x58 0x79 0x74 0x6F 0x6E 0x67" is Single.	

3.1.25 Answer to dispatch screen sending short message to the center

Message	Field value	Туре	Length	Instruction		
Field			(byte)			
Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command	AS07	C_STRING	4			
word						
Message body	Message	C_STRING				
	Content					
Message						
content						
Ending)	CHAR	1			
identifier						
Example::	Example::					
(013612345678 <mark>AS07</mark>)						
Response	NONE					
Instruction:	This message is available to a part of device					

3.1.26 Center sends instant messages to the advertising screen

Message	Field value	Type	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	

N. 1					
Number					
Command	AQ01	C_STRING	4		
word					
Message body	Message	C_STRING			
	Content				
Message	BBBBB + LL +	- CCC			
content	BBBBB: pres	serve 5 bytes, he	exadecimal value		
	LL: content len	ngth, two bytes, 16 l	nex value, high b	byte at the first, low byte	
	at the post.				
	CCC: the short	message content, G	B2312 encoding	or standard ASCII code,	
	16 hex values, a	a two-byte character	s, an ASCII 1 by	te.	
Ending)	CHAR	1		
identifier					
Example::	·				
(01361234567	8AQ01 0x00 0x00	0 0x00 0x00 0x00 0	0x00 0x18 0x53	0x68 0x65 0x6E 0x7A	
0x68 0x65 0x6E	0x20 0x48 0x6F 0	x6E 0x67 0x79 0x7	5 0x61 0x6E 0x2	20 0x58 0x79 0x74 0x6F	
0x6E 0x67)					
0x00 0x00 0x	k00 0x00 0x00 Pı	reserved 5 characte	ers.		
0x18 is lengt	0x18 is length, "0x53 0x68 0x65 0x6E 0x7A 0x68 0x65 0x6E 0x20 0x48 0x6F 0x6E 0x67				
0x79 0x75 0x61 0x6E 0x20 0x58 0x79 0x74 0x6F 0x6E 0x67" is SMS content: Shenzhen					
Hongyuan Xintong					
Response	BS09				
Instruction:	This message is	This message is available to a part of device			

3.1.28 Request to taken photos message

Message	Field value	Туре	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				

Equipment		C_STRING	12		
Number					
Command	AY01	C_STRING	4		
word					
Message body	Message	C_STRING			
	Content				
Message content	N + S + Q N: the camera number, one byte, each equipment is only installed a camera, this value is 0x00, 16 hex value S: Photo serial number, one byte, 16 hex value, the returned image data of the picture with this same serial number. Q: the picture quality, a byte, 16 hex values, values are: 0x01 Photo VGA (640x480) (General A) 0x02 Photo VGA (640x480) (good B) 0x03 Photo VGA (640x480) (well C) 0x04 Photo VGA (640x480) (good D) 0x05 Photo QVGA (320x240) (General A) 0x06 Photo QVGA (320x240) (good B) 0x07 Photo QVGA (320x240) (well C) 0x08 Photo QVGA (320x240) (good D) 0x09 Photo QVGA (160x120) (General A) 0x0A Photo QQVGA (160x120) (good B) 0x0B Photo QQVGA (160x120) (well C)				
Ending)	QQVGA (160x120 CHAR	1		
identifier					
Example::					
(013612345678AY01 0x00 0x00 0x01)					
Request to the 0 camera photo, picture quality is 640*480 ,general result.					
Response	BY01				
Instruction:	This message is available to a part of device				

3.1.29 Request to send picture data packet message

Message	Field value	Туре	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	

Number					
Command	AY02	C_STRING	4		
word					
Message body	Message	C_STRING			
	Content				
Message content	camera, this value S: Photo serial picture with thin PP: for the picture starting from 0 the data packet may have miss	N: the number of the camera, one byte, each equipment is only installed a camera, this value is 0x00, 16 hex value S: Photo serial number, a byte, 16 hex value, the returned image data of the picture with this same serial number. PP: for the picture data packet number, 2 bytes, 16 hex value, the value of starting from 0x0001. Equipment automatically after finishing according to the data packets from 0x0001 to begin uploading packets. Platform center may have missed a package, or find a packet checksum error, the platform can be issued by the appropriate number of packets requested equipment			
Ending)	CHAR	1		
identifier					
Example::					
(013612345678AY01 0x00 0x00 0x01)					
request the 0 camera photo, picture quality is 640 x 480, results in general.					
Response	BY01				
Instruction:	This message is available to a part of device				

3.1.30Download group number(30 group numbers at most. From the 31st group number, it will automatic replace originally group number one)

Message Field	Field value	Туре	Length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AP16	C_STRING	4	
Message body	Message Content	C_STRING		

Message Content	X + Telephone number content 《the most 30 group phone》 X: include Serial number (then have X group number)				
	Telephone number content format (one group number total30 byte) {				
	N + nnnnnnn + B + bbbbbbbbbbbbbbbbbbbbbbb				
	N: name length, 1 byte.				
	nnnnnnn: name content, 8 byte 《BG2312》 or standard ASCII				
	code, After inadequate filling 0x00.				
	B: number length, 1 byte.				
	bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb				
	inadequate filling 0x00.				
	}				
Ending) CHAR 1				
identifier					

Example:

The platform to the terminal download two group number:

The first: six byte of the name (Forest) ,eleven byte number (13164709657).

The second: four byte of the name (HY), twelve byte number (075583766230).

Response:	BP16
Instruction:	This message is available to a part of device,

3.1.31Request to cancel group number

Message Field	Field value	Туре	length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AP17	C_STRING	4	

Message body	Message content	C_STRING		
Message content	0xFF			
Ending identifier)	CHAR	1	

Example:				
(013612345678 AP17 0xFF) The platform to terminal request cancel all of group				
number				
Response:	BP17			
Instruction:	This message is available to a part of device.			

3.1.32 Request to upload group number

Message	Field value	Type	Length	Instruction
Field			(byte)	
Begining	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	AP18	C_STRING	4	
word				
Message body	Message	C_STRING		
	content			
Message	0xFF			
content				
		1		
Ending)	CHAR	1	
identifier				

Example:				
(013612345678 AP18 0xFF) The platform to terminal request upload all of group				
number.				
Response:	BP18			
Instruction:	This message is available to a part of device.			

3.1.33Response to upload group number

Message Field	Field value	Туре	Length (byte)	Instruction	
Beginning identifier	(CHAR	1		
Device number		C_STRING	12		
Command word	AP19	C_STRING	4		
Message body		C_STRING	fixed		
Message content	Y: 2 successful,3 Failure, 1 byte.				
Ending identifier) CHAR 1				
Example:					
(013632782450 AP192) 0x02 Said upload group number is success					
Reponse:	oonse: No need response				
Instruction:	This message is available to a part of device,				

3.1.34 Set up passing back messages of timing open and close oil consumption.

Message Field	Field value	Туре	Length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AX06	C_STRING	4	
Message body	Message content	C_STRING		
Message	Y			
content	Y: 2:open,3:	shut , 1 byte.		
Ending)	CHAR	1	

Example:	
(01361234	5678 AX06 2)
Set open	
Response:	BS24
Instruction:	This Message is available to a part of device.

3.1.35Ask for the current black and white list

identifier

Message	Field value	Type	Length	Instruction	
Field			(byte)		
Beginning	(CHAR	1		
identifier					
Device		C_STRING	12		
number					
Command	AP20	C_STRING	4		
word					
Message body	Message	BYTE			
	content				
Message	AABBCCCC				
content	AA : Ask f	for the file type of	the list (HEX	X)	
	1 Ask for black list				
	2 Ask for white list				
	BB : The file type of the list (HEX)				
	01 Basic list (Default value, General situation only				
	feedbac	ek basic list)		-	
	02	Add list			
	03 Reduce list				
	CCCC: Lists of file version number (BCD)				
	Cook is the version number (Bob)				
Ending)	CHAR	1		
identifier					

Example:				
(013612345678AP2001010108)				
Response:	BS25			
Instruction:	This message is available a part of device, XIAN of the taxi program.			

3.1.36Download the file of black and white list

Message Field	Field value	Type	Length (byte)	Instruction	
Beginning identifier	(CHAR	1		
Device number		C_STRING	12		
Command word	AX10	C_STRING	4		
Message body	Message content	BYTE			
Message content	content ABBCCCC AA : Ask for the file type of the list (HEX) 1 Download black list 2 Download white list BB : The file type of the list (HEX) 01 Basic list (Default value, general situation only feedback basic list) 02 Add list 03 Reduce list CCCC : Lists of file version number (BCD) DD : All frame number (HEX) EE : Current frame number (Natural number 1,2,3,255) (HEX) FFFFF : The content of the file list (HEX)				
Ending identifier)	CHAR	1		

Example:	
Response:	BS10
Instruction:	This message is available to a part of device, XIAN of the taxi program.

3.1.37Ask for the driver on duty.

Message	Field value	Type	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	AP21	C_STRING	4	
word				
Message body	Message	C_STRING		
	content			

Message content	non			
Ending identifier)	CHAR	1	
Example:				
Response: I	3S26			
Instruction: T	This message is a	vailable to a part of	f device XIAN of t	he taxi program.
3.1.38Ask d Message Field	for the soft Field value	Type	Length (type)	pty taxi lamp Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AP22	C_STRING	4	
Message body	Message content	C_STRING		
Message content	Non			
Ending identifier)	CHAR	1	
Example:				
Response: E	3S27			

3.1.39Download the software of the empty taxi lamp (Upgrade of the software version)

Message Field	Field value	Туре	Length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AX11	C_STRING	4	
Message body	Message content	ВҮТЕ		
Message content	BB : The CC : The DDDD: All EEEE : Cu	EEEEFFFFF e first version nun e second version r frame number (H rrent frame numb pgrade file conten	number (HEX) IEX) er (HEX)	a frame)(HEX)
Ending identifier)	CHAR	1	. /

Example:	
Response:	BS11
Instruction:	This message is available to a part of device ,XIAN of TAXI program
	If not receive the BX11 response successful message, must be sent again a
	frame.

3.1.40Response driver messages

Message Field	Field value	Type	Length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AS23	C_STRING	4	
Message body	Message content	BYTE		

Message content	AAAAAAAA AAAAAAAA	: Driver num	nber (BCD)	
Ending identifier)	CHAR	1	

Example:	
Response:	Non
Instruction:	This message is available to a part of device XIAN TAXI of program.

3.1.41 Response taxi trading record

Message	Field value	Type	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	AS24	C_STRING	4	
word				
Message body	Message	BYTE		
	content			
Message	AA			
content	AA : 00	receiving succe	SS	
	No	00 failure		
Ending)	CHAR	1	
identifier				

Example:	
Response:	Non
Instruction:	This message is available to a part of device XIAN TAXI of program.

3.1.42 Center sends messages for cutting off the real-time advertisement to the advertising screen

Message Field	Field value	Туре	Length (type)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AQ02	C_STRING	4	
Message content				
Ending identifier)	CHAR	1	

Example:	
(01361234	5678AQ02)
Response:	BS28
Instruction:	This message is available to a part of device

3.1.43 Center sends messages of increasing the conventional Advertisement to the advertising screen.

Message	Field Value	Type	Length	Instruction
Field			(byte)	
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	AQ03	C_STRING	4	
word				
Message body	Message	C_STRING		
	content			
Message	BBBBB + LL	+ CCC		
content	BBBBB : 7	The first B for "	InformationID"	The back four B for
	reserve, 16 he	x values		

	LL	: (Content length,	Two bytes,	16 h	ex values,	high byte
		at the first, low byte at the post.					
	CCC	: the short message content, GB2312encoding or standard					
		ASCII code, 16 hex values, a two byte characters, a					
		ASCII 1 byte。					
				_			
Ending)		CHAR	1			
identifier							

Example:		
(01361234	5678AQ03 0x00 0x00 0x00 0x00 0x00 0x00 0x0D 0xC9 0xEE 0xDB	
0xDA 0xBA 0	0xE8 0xD4 0xB6 0xD0 0xC5 0xCD 0xA8 0x38)	
0x00 0x0	0 0x00 0x00 0x00 Preserved 5 characters.	
OxOO OxOD is length, "OxC9 OxEE OxDB OxDA OxBA OxE8 OxD4 OxB6 OxDO OxC5		
0xCD 0xA8 (0x38" is the short message content "hongyuanxintong 8"	
Response:	BS29	
Instruction:	This message is available to a part of device	

3.1.44 Center sends messages for canceling all of Conventional Advertisement to the advertising screen.

Message Field	Field Value	Type	Length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AQ04	C_STRING	4	
Message body				
Message content				
Ending identifier)	CHAR	1	

Example:	
(013612345678 <mark>AQ04</mark>)	

Response:	BS30
Instruction:	This message is available to a part of device

3.1.45 Setting up passing back messages of timing open and close Temperature

Message Field	Field Value	Type	Length (byte)	Instruction
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number		_		
Command	AX07	C_STRING	4	
word		_		
Message body	Message	C_STRING		
	content			
Message	Y			
content	Y: 20Pen,3S	Shut, 1Byte.		
	ŕ			
Ending)	CHAR	1	
identifier				

Example:		
(013612345678 AX07 2)		
Setting open		
Response:	BS24	
Instruction:	This message is available to a part of device	

3.1.46 Setting up regularly opening and closing direct communication message

Message Field	Field Value	Type	Length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command	AX08	C_STRING	4	

word				
Message body	Message content	C_STRING		
Message content	Y Y: 2Open,3	Shut, 1 byte.		
Ending identifier)	CHAR	1	

Example:	Example:		
(013612345678 AX08 2)			
Setting open			
Response:	BS24		
Instruction:	This message is available to a part of device		

3.1.47On-call certer sends messages to the driver on duty

Message Field	Field Value	Туре	Length (byte)	Instruction
Beginning identifier	(CHAR	1	
Device number		C_STRING	12	
Command word	AQ05	C_STRING	4	
Message body	Message content	C_STRING		
Message	B + CCCCCCCCCCC + D			
content	B: State, =0x00, To empty vehicle send Vies to answer first request.			
	=02	=0x01, vies to answer first success to the vehicle issued		
	successful information.			
	=0x02, to other not vies to answer successful vehicle			
		issued failure information.		
	=02	(03, to already	vies to answ	er successful vehicle
		e information.		
	C: Calling ord	ler number, 13Bv	te, as call co	de means :Each of the
	C: Calling order number, <i>13Byte</i> , as call code means: Each of the on-call orders only ID			
		D: Order content, from as call code or characters component		
		•		•
	Remarks: When state=0x01, order content including detail information and telephone,			
	imormation a	na terephone,		

	Format : information	'&'+Customer n	telephone	number+	-'&'+detailed	order
Ending identifier)	CHAR	1			

Example:				
(013612345678AQ05 0x01 000000000000 & 13164709657 & Near the				
SHENZHE	N SAIGE square)			
Response:	BS32			
Instruction:	This message is available to a part of device			

3.1.48 Center sends messages for canceling sending Conventional Advertisement to the advertising screen

Message	Field Value	Type	Length	Instruction
Field		31	(byte)	
	,	CTT L D	(byte)	
Beginning	(CHAR	1	
identifier				
Device		C STRING	12	
number		_		
Command	AQ06	C STRING	4	
word		_		
Message	delete tota	1 information	(1 Byte)+Info	ormation
content	ID1(1Byte)+Information ID2(1Byte)+,,+Information			
			, , , , , , , , , , , , , , , , , , , ,	
	IDn(1Byte)			
Ending)	CHAR	1	
identifier				

Example:	Example:			
(013612345678AQ060x02 0x00 0x01)				
Delete total i	Delete total information(2)+Information ID1(0x00)+Information ID2(0x01)+,,			
Response:	BS33			
Instruction:	This Message is available to a part of device,			

3.1.49 Set up intervals and times of taking timing pictures

Message Field	Field Value	Туре	Length (byte)	Instruction	
Beginning identifier	(CHAR	1		
Device number		C_STRING	12		
Command word	AY03	C_STRING	4		
		C_STRING	8		
Message content	AY03XXXXYYYY	AY03XXXXYYYY			
	AY03: Fixed k	AY03: Fixed key words			
	XXXX: Time interval for each message of continues take picture,				
	hex. Unit: second, 4 characters in all, H_STRING, The max is 0xFFFF				
	second. When XXXX=0 The device stops continues take picture.				
	YYYY: The total times for Equal time feedback, 16 advance system,				
	4 characters	is all, H_STRIN	IG, The max is	0xFFFF, When YYYY	
	=0 According to the time intervals continues take picture.				
	When both XXXX and YYYY are not 0, it figure that take picture				
	according to	the time interv	vals when it	up to total time it	
	automatically	stop to take pi	cture.		
Ending identifier)	CHAR	1		

Example:	Example:				
(013612345678 AY03 012C0024)					
Down fixed time to set continues take picture, 300 (0x12C)second feedback picture					
one time , Total feedback 36 (0x24) times.					
Response:	Terminal response BS08				
Send mode:	MSM、GPRS				
Instruction:	This message is available to economic device and navigation device.				
	In the mode of SMS to continues feedback , If set time intervals				

is less that the min time interval (Set by device manufacturer),

It will continues feedback according to the Min time interval;

otherwise continues feedback according to the set time . The data

mode is the same as the SMS mode.

3.2.Uplink message (The device Sending)

3.2.1 Handshake signal Message

Message	Field value	Туре	Length	Instruction	
Field			(byte)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command	BP00	C_STRING	4		
word					
Device ID	Device ID	C_STRING	15		
Message body		C_STRING	3		
Message	0000136123456780HSO				
content					
Ending)	CHAR	1		
identifier					
Example::					
(013612345678 BP00 000013612345678HSO)					
Up data handshaking message, "13612345678" is tracker ID.					
Response	Center service response AP01				
Instruction:	This message is	available to all d	levice		

3.2.2 Login message

Field Value (Character) Beginning identifier Equipment Number Command BP05 C_STRING 12 Terminal ID Terminal ID C_STRING 15 Message body Message 15 terminal ID + GPS data content Ending identifier Example:						
Beginning	Message	Message	Type	Length	Instruction	
Beginning identifier Equipment C_STRING 12	Field	Value		(Character)		
Equipment C_STRING 12 Number Command BP05 C_STRING 4 Command C_STRING 15 15 Message body C_STRING 60 60 Message content CHAR 1 1 Ending identifier CHAR 1 1 Example: (013612345678BP05000013612345678080524A2232.9806N11404.9355E000.110 100	Beginning	(CHAR	1		
Number Command BP05 C_STRING 4	identifier					
Command word BP05 C_STRING 4 Terminal ID Terminal ID C_STRING 15 Message body C_STRING 60 Message content 15 terminal ID + GPS data Ending identifier CHAR 1 Example: (013612345678BP05000013612345678080524A2232.9806N11404.9355E000.110	Equipment		C_STRING	12		
command word Terminal ID Terminal ID C_STRING 15 Message body C_STRING 60 Message content 15 terminal ID + GPS data Ending identifier CHAR 1 Example: (013612345678BP05000013612345678080524A2232.9806N11404.9355E000.110	Number					
Terminal ID Terminal ID C_STRING 15 Message body C_STRING 60 Message content 15 terminal ID + GPS data Ending identifier CHAR 1 Example: (013612345678BP05000013612345678080524A2232.9806N11404.9355E000.110	Command	BP05	C_STRING	4		
Message body	word					
Message 15 terminal ID + GPS data content Ending CHAR 1	Terminal ID	Terminal ID	C_STRING	15		
content Ending identifier Example: (013612345678 BP05 000013612345678080524A2232.9806N11404.9355E000.110	Message body		C_STRING	60		
Ending CHAR 1	Message	15 terminal ID + GPS data				
Ending identifier Example: (013612345678 BP05 000013612345678080524A2232.9806N11404.9355E000.110	content					
Example: (013612345678 BP05 000013612345678080524A2232.9806N11404.9355E000.110	Ending)	CHAR	1		
(013612345678 BP05 000013612345678080524A2232.9806N11404.9355E000.110	identifier					
	Example:					
241323.870000000L000450AC)	(013612345678 BP05 000013612345678080524A2232.9806N11404.9355E000.1101					
	241323.8700000	000L000450AC)			
Response: Centre service response AP05	Response:	Centre service response AP05				
Instruction: This message is available to all device	Instruction:	This message is	s available to all de	vice		

3.2.3 Response to set up passing back the isochronal and continuous message.

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	

Number					
Command word	d BS08	C_STRING	4		
Message Body		C_STRING	8		
Message Conte	tent BS08XXXXYYZZ				
	BS08: Fix	key words			
	XXXX: In	terval for each m	essage of continu	ues feedback. Unit:	
	second, 4	characters in all,	H_STRING, to	the max is 65535	
	seconds. W	When XXXX=0,	The device stops	continues feedback	
	YYZZ: th	e total time of fe	edback, Unit:	YY: Hour, ZZ:	
	Minute 。 T	otal of 4 bytes,	16 advance syst	tem, to the max is	
	FFFF, me	eans 255 hours a	and 255 minutes	\cdot When YYZZ =	
	0,according to the time intervals continues feedback.				
	When both XXXX and YYZZ are not 0, it figure that feedback				
	accordin	g to the time into	ervals when it up	to the total time it	
	automati	cally stop to feed	back.		
Ending identifie	CHAD 1				
Example:					
(0136123456	78 BS08 0005001	14)			
Return GPS dat	ta every 5 secon	ds, total of 20 m	ninutes。		
Response: N	No need to response				
Instruction T	This message applies to economically terminals and navigational				
te	terminals. Ceaselessly return, after the mode of short message. If the				
iı	interval of set time is less than the interval of minimum time (set by				
tl	the terminal manufacturers), then the time of ceaselessly return				
a	according to the interval of minimum time, if not, then according to				
tl	he interval of th	e set time。 Data	model and short	message model are	
	he same.				

3.2.4 Alarm message

Message	Message	Туре	Length	Instruction		
Field	Value		(Character)			
Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command	BO01	C_STRING	4			
word						
Message		C_STRING	61			
Body						
Message	BO01X+GPS	BO01X+GPS data				
Content	BO01: Fixed	BO01: Fixed keywords				
	X: Specific	alarm information	n code, 1 byte,	Hexadecimal o		
	Alarm inform	nation:				
	0: Vehicle p	ower off	1: Accident			
	2: Vehicle robbery (SOS help) 3: Vehicle anti-theft and alarming					
	4: Lowerspeed Alert 5: Overspeed Alert					
	6:Alarm when out of Geo-fence 7: Movement Alert					
Ending)	CHAR	1			
identifier						
Example:						

(013612345678**B001**2061830A2934.0133

N10627.2544E040.0080331309.6200000000L000770AD)

Alarm message and vehicle robbery。 GPS data acquisition time is March 24,2008, Universal time is 6:18:30°, "A" shows the data available, 29 degrees,34.0133 minutes north latitude,106 degrees 27.2544 minutes east longitude,speed is 040.0 km/h, the angle is 309.62 degrees, from due north。"L" means Total mileage, unit is meter, mileage statistic。

Response:	Centre response AS01
Instruction	This message applies to all terminals. Send the information up to 10
	times every intervals is 30 seconds, No longer to send the
	information after receive the platform response.

3.2.5 Answer to Message of calling the roll.

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP04	C_STRING	4	
word				
Message		C_STRING	Random length	
Body			length	
Message	BP04+GPS da	ıta		
Content	BP04: fix Con	nmand Word。		
Ending)	CHAR	1	
identifier				
Example				

Example

(013612345678**BP04**080525A2934.0133N

10627.2544E000.0141830309.6200000000L00000023)

Up terminal news (center response by one roll call), GPS data acquisition time is May25,2008, Universal time is 14:18:30, "A" shows the data available, 29 degrees,34.0133 minutes north latitude, 106 degrees 27.2544 minutes east longitude, speed is 0km/h, the angle is 309.62 degrees, from due north.

Response	No
Instruction:	This message is available to all device

3.2.6 Isochronous and continues feedback message

Message	Messa	ge Value	Туре	Length	Instruction
Field				(Character)	
Beginning	(CHAR	1	
identifier					
Equipment			C_STRING	12	
Number					
Command	BR00		C_STRING	4	
word					
Message body			C_STRING		
Message body	BR00+GPS data				
Message)		CHAR	1	
content					
Ending					
identifier					
Example					
(013612345678]	3R00 080	612A2232	.9828N11404.9	297E000.00228	28000.00000000
00L000230AA)					
Response		No			
Instruction This r		This me	This message applies to economically terminals and		
		navigational terminals . Continuously return total time and			
		distance, or receive the message of stop continuously			
return message from the center., then send the					
message to center.					

3.2.7 Continuously passing back ending message

Message	Message	Type	Length	Instruction
Field	Value		(Character)	

Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command	BR02	C_STRING	4			
word						
Device ID		C_STRING	Random length			
Message body	y BR02 + G	PS data				
Message)	CHAR	1			
content						
Ending						
identifier						
Example:						
Response:	No					
Instruction	This message applies to economically terminals and navigational					
	terminals. Continuously return total time and distance, or receive the					
	message of stop continuously return message from the center., then					
	send the ending	g message to cen	ter			

3.2.8 Response to set up vehicle max and min speed

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP12	C_STRING	4	
word				

Message	Message Content	C_STRING		
body				
Message	H0501L030			
body				
Message)	CHAR	1	
content				
Ending				
identifier				
Example:				
(013612345678 BP12 H0501L030)				
Instruction :	This message is	available to all de	evice	

3.2.9 Response to circuit Control

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment Number		C_STRING	12	
Command Word	BV00	C_STRING	4	
Message Body	Message Content	C_STRING		
Message Content	"1"or"0","1" been closed	means circuit has	been opened, "(" means circuit has
Close Identifier)	CHAR	1	
Example:				
Response:	No			
Instruction:	This message is	available to all de	evice	

3.2.10 Response to oil Control

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BV01	C_STRING	4	
word				
Device ID	Message content	C_STRING		
Message body	"1"or"0","1"means oil has been opened, "0"means oil has been closed.			
Message)	CHAR	1	
content				
Ending				
identifier				
Example:		1		
Response: N	Response: No			
Instruction:	This message is	available to all de	evice	

3.2.11 Answer to the restarted message of the device

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BT00	C_STRING	4	

word				
Message	Message Content	C_STRING		
Body	Content			
Message	no			
Content				
Ending)	CHAR	1	
identifier				
Example:				
_	> T			
Response:	No			
Instruction:	This message is	available to all de	evice	

3.2.12 Answer to Setting ACC open data intervals

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BR05	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body	Content			
Message	no			
Content				
Ending)	CHAR	1	
identifier				
Example:				

Response:	No
Instruction:	This message is available to all device

3.2.13 Answer to Setting ACC close sending data intervals

Message	Message	Туре	Length	Instruction	
Field	Value		(Character)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command	BR06	C_STRING	4		
word					
Message	Message Content	C_STRING			
Body	Content				
Message	no				
Content					
Ending)	CHAR	1		
identifier					
Example:					
Response:	No				
Instruction:	This message is available to all device				

3.2.14 Answer to Setting Geo-fence Messages

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				

Equipment		C_STRING	12	
Number				
Command	B U 0 0	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body				
Message	BU00N BU00: 0	Command		
Content	N: 0 or 1, "0" figures answer the canceling outside-fence. "1" figures answer setting outside-fence. "2" figures answer setting inside-fence.			
Ending)	CHAR	1	security misrae renee
identifier				
Example:	·			
Response:	No			
Instruction:	This message is	available to all de	evice	

3.2.15 Obtain the terminal location message

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BR03	C_STRING	4	
word				
Message	Message	C_STRING		
Body	Content			
Message	BR03 + GPS da	ita	,	
Content				
Ending)	CHAR	1	

identifier				
Example:				
(0136327824	(013632782450 BR03 080525A2934.0133N			
10627.2544E00	00.0141830309.6200	0000000L200300C6)	
Response:	AR03			
Instruction:	This message is	available to all de	evice	

3.2.16 Response to monitoring commands

Message	Message	Type	Length	Instruction	
Field	Value		(Character)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command	BS20	C_STRING	4		
word					
Message	Message Content	C_STRING			
Body	Content				
Message					
Content					
Ending)	CHAR	1		
identifier					
Example:					
(013632782450 BS20)					
Response: No					
Instruction:	uction: This message is available to all device				

3.2.17 Answer to Setting up the terminal IP address and port

Message Message	Type	Length	Instruction
-----------------	------	--------	-------------

Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP02	C_STRING	4	
word				
Message	Message	C_STRING		
Body	Content			
Message				
Content				
Ending)	CHAR	1	
identifier				
Example:				
(013632782450)BP02)			
Response:	No			
Instruction:	This message is	available to all de	evice	

3.2.18 Answer to Setting APN message

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP03	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body	- 3			

Message				
Content				
Ending)	CHAR	1	
identifier				
Example:	•		·	
(0136327824	50 BP03)			
Response:	No			
Instruction:	This message	is available to a	ll device	

3.2.19 Response to reading the terminal version message

		I	I	
Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP01	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body				
Message	Is not fixed-le	ength string, the pl	latform only need	to shown the string
Content	,			
Ending)	CHAR	1	
identifier				
Example:				
(013632782450 BP01 GPS518,DEC,22,2008)				
Response: No				
Instruction:	This message is	available to all de	evice	

3.2.20 Response to canceling all alarm messages

Message	Message	Type	Length	Instruction		
Field	Value		(Character)			
Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command	B S21	C_STRING	4			
word						
Message	Message Content	C_STRING				
Body	Content					
Message						
Content						
Ending)	CHAR	1			
identifier						
Example:	Example:					
(013632782450 BS21)						
Response: No						
Instruction:	This message is available to all device					

3.2.21 Answer to Clearing mileage Messages

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	B S04	C_STRING	4	

word				
Message	Message Content	C_STRING		
Body	Content			
Message				
Content				
Ending)	CHAR	1	
identifier				
Example:				
(0136327824	50 BS04)			
Response:	No			
Instruction:	This message is	s available to all de	evice	

3.2.22 Answer to starting the upgrade messages

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	B S05	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body				
Message				
Content				
Ending)	CHAR	1	
identifier				
Example:				
(013632782450 BS05)				
Connect to the	update server	upgrade after the	e terminal response	. After the upgrade

is complete, it will return to the original platform, all of the setting parameters will not change.			
Response:	No		
Instruction:	This message is available to all device		

3.2.23 Answer to Initialize mileage Message

Message	Message	Туре	Length	Instruction	
Field	Value		(Character)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command	B S06	C_STRING	4		
word					
Message	Message Content	C_STRING			
Body	Content				
Message					
Content					
Ending)	CHAR	1		
identifier					
Example:					
(013632782450 BS06)					
Response:	No				
Instruction:	This message is	This message is available to all device			

3.2.24 Answer to Center sends short messages to the dispatching screen

Message Message Type Length	n Instruction
-----------------------------	---------------

Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	B S23	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body	Content			
Message				
Content				
Ending)	CHAR	1	
identifier				
Example:				
(01363278245	(0 BS23)			
Response:	No			
Instruction:	This message is available to all device			

3.2.25 Dispatch screen sends a short message to the center

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BR04	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body	Content			

Message Content	L + CCC L: content length, one byte hexadecimal value CCC: the short message content, UNICODE encoding, hexadecimal				
	value	_		_	
Ending)	CHAR	1		
identifier					
Example:					
(0136123456	78BR04 0x30 0x	00 0x53 0x00 (x68 0x00 0x65	0x00 0x6E 0	x00 0x7A 0x00
0x00 0x75 0x0 0x6E 0x00 0x6	0x68 0x00 0x65 0x00 0x6E 0x00 0x20 0x00 0x48 0x00 0x6F 0x00 0x6E 0x00 0x67 0x00 0x79 0x00 0x75 0x00 0x61 0x00 0x6E 0x00 0x20 0x00 0x58 0x00 0x79 0x00 0x74 0x00 0x6F 0x00 0x6E 0x00 0x67)				
0x30 is len	gth, "0x00 0x53	0x00 0x68 0x00) 0x65 0x00 0x6	SE 0x00 0x7A (0x00 0x68 0x00
0x65 0x00 0x6	E 0x00 0x20 0x00	0x48 0x00 0x6	F 0x00 0x6E 0x	:00 0x67 0x00 (0x79 0x00 0x75
0x00 0x61 0x00 0x6E 0x00 0x20 0x00 0x58 0x00 0x79 0x00 0x74 0x00 0x6F 0x00 0x6E 0x00					
0x67" is SMS content: Shenzhen Hongyuan Xintong					
Response:	AS07				
Instruction:	This message is	s available to a	part of device	e	

3.2.26 Response to Center send an instant message to the advertising screen

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	B S09	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body				

Message	(013632	782450 BS09)		
Content				
Ending)	CHAR	1	
identifier				
Example:				
Response:	No			
Instruction:	This message is available to a part of device			

3.2.27 Compensation Data Return messages

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BR01	C_STRING	4	
word				
Message	Message Content	C_STRING		
Body				
Message	BR01+GPS da	ita		
Content				
Ending)	CHAR	1	
identifier				
Example:				
(013632782450 BR01 080612A2232.9828N11404.9297E000.0022828000.0000000000L000230 ED)				
	Do not need respond			
Instruction:	This information	n is used to compe	ensate breakpoints	S

3.2.28 Answer to request photo taking messages

			<u> </u>		
Message	Message	Туре	Length	Instruction	
Field	Value		(Character)		
Beginning	(CHAR	1		
identifier					
Equipment		C_STRING	12		
Number					
Command	BY01	C_STRING	4		
word					
Message	Message Content	C_STRING			
Body	Content				
Message	N + S + LLL N: the can			mak on as the measurest	
Content	camera. 16 he		ie, as the same nu	imber as the request	
	S: Photo seri	al number, one b	yte, hexadecimal	value, as the same	
		e request image.			
			the picture, 3 by	tes, high byte in the	
	former, 16 he	CHAR	1		
Ending	'	CHAR	1		
identifier					
Example:	Example:				
(013632782450BY01 0x00 0x00 0x00 0x10 0x33)					
Image length is $0x00 * 256 * 256 + 0x10 * 256 + 0x33 = 4147$ bytes. If the length is					
0, that is photo failure.					
Response:	Do not need respond				
Instruction:					

3.2.29 Send the picture data packets messages

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				

Number Command word Message Body Message Content Message Content N + S + LL + KK + DDD + CC N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending) CHAR 1 Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	Equipment		C_STRING	12		
Command word Message Body Message Content Message Body Message Content N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0x0F 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond						
Message Body Message Content N+S+LL+KK+DDD+CC N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0x0F 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond		BV02	C STRING	1		
Message Body N + S + LL + KK + DDD + CC N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0x0F 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	Command	B102	C_STRING	7		
Message Content Message Content N + S + LL + KK + DDD + CC N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0x0F 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	word					
Message Content N+S+LL+KK+DDD+CC N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	Message	_	C_STRING	Variable-lengt		
Message Content N + S + LL + KK + DDD + CC N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0x07 0x07 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond		Content		h		
N: the camera number, a byte, as the same number as the request camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond		N+S+II+	$\frac{ }{ }$			
Content Camera. 16 hex value S: Photo serial number, one byte, hexadecimal value, as the same number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content.	Message				imber as the request	
number as the request image. LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	Content			,	1	
LL: packet number, 2 bytes, high byte in the former, 16 hex values, starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond				byte, hexadecimal	value, as the same	
starting from 0x0001. KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond					161 1	
KK: picture data content length, 2 bytes, high byte in the former, 16 hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond		-		igh byte in the for	mer, 16 hex values,	
hex values, the length of each packet are the same, some of the last packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond		_		h 2 bytes high by	te in the former 16	
packet of data is invalid, according to the length of the returned documents to determine. DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier CHAR 1		_	_			
DDD: data content, CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond		packet of dat	a is invalid, acc	cording to the len	gth of the returned	
CC: Checking value, two bytes, high byte in the former, 16 hex values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier CHAR 1						
values, use of cumulative parity check mode, we start the computation from N to the end of the data content. Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond			,		1 0 161	
computation from N to the end of the data content. Ending identifier CHAR						
Ending identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond						
identifier Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	F., 1:)	1			
Example: (013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond						
(013632782450BY02 0x00 0x00 0x00 0xFF 0x01 0x02 0xFF 0xD9 0x03 0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond						
0xD8) Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	-			0.04.0.05.0.77		
Camera number is 0x00, picture serial number is 0x00, the packet number is 0x00FF, data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond	1 `	SOBY02 0x00 0	0x00 0x00 0xFF	0x01 0x02 0xFI	f 0xD9 0x03	
data content length is 0x0102, the data content is 0xFF, 0xD9, check number is 0x03, 0xD8. Response: Do not need respond						
0x03, 0xD8. Response: Do not need respond						
1						
Instruction:	Response:	Do not need respond				
	Instruction:					

3.2.30Answer to downloading group numbers

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	

identifier						
Equipment		C_STRING	12			
Number						
Command	BP16	C_STRING	4			
word						
Message		C_STRING	FIX			
Body						
Message	Y	Y				
Content	Y: 2:Succeed	d,3: Fail, 1:Type	0			
Ending)	CHAR	1			
identifier						
Example:						
(013632782450 BP162) That means download group number successfully.						
Response:	No need response					
Instruction:	This messa	ge is available to	a part of device	<u>)</u> .		

3.2.31Answer to canceling group numbers

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP17	C_STRING	4	
word				
Message		C_STRING	FIX	
Body				

Message	Y	
Content	Y: 2Succeed,3:Fail, 1Byte.	
Ending) CHAR 1	
identifier		
Example:		
(013632782450 BP172) That means canceling group number successfully.		
Response:	No need response	
Instruction:	This message is available to a part of device	

3.2.32Upload group numbers

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP18	C_STRING	4	
word				
Message		C_STRING	Indefinite	
Body			length	
Message	_	number content 《Th		
Content	X: Include seri	al number (Then ha	ave X group num	ber)
	1	per content formart:	(one group num	ber total have 30 byte)
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nn + B + bbbbbbbbb	hhhhhhhhhhh	
		ength, 1byte.		
	nnnnnnnn:	name content, 8 b	yte 《BG2312》 o	or standard ASCII code,
	after inadequate	•		
		B: number length, 1byte. bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb		
	}		. -	

Ending)	CHAR	1	
identifier				

Example:	
(013612345678 BP	18 0x02 0x06 0x46 0x6F 0x72 0x65 0x73 0x74 0x00 0x00 0x0B 0x31 0x33
0x31 0x36 0x34 0x3	37 0x30 0x39 0x36 0x35 0x37 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x04 0xBA 0x	xE8 0xD4 0xB6 0x00 0x00 0x00 0x1C 0x30 0x37 0x35 0x35 0x38
0x33 0x37 0x36 0x3	6 0x32 0x33 0x30 0x00 0x00 0x00 0x00 0x00
The terminal to the p	platform download two group number.:
First: Six byte of the	e name (Forest), Eleven byte of number (13164709657).
Second: four byte	of the name (HONGYUAN), Twelve byte of number (075583766230).
Response:	AP19
Instruction:	This message is available to a part of device,

3.2.33 Alarm for data offset and messages return

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BO02	C_STRING	4	
word				
Message		C_STRING	61	
Body				
Message	BO02X+GPS D	Pate		
Content	BO02: Fix key word			
	X: Specific ala	rm information code	e, 1 byte, 16 ad	lvance system.

	Alarm message:
	0: Cut of vehicle oil 1: vehicle anti-theft alarm
	2: Vehicle rob (SOShelp) 3: Happen accident
	4: Vehicle low speed alarm 5: Vehicle over speed alarm
	6: Vehicle out of Geo-fence
Ending) CHAR 1
identifier	

Example:

(013632782450**BO022**080524A2934.0133

N10627.2544E040.0061830309.6200000000L000770EF)

Up alarm message, vehicle robbery of GPS data acquisition time is march 24 2008, Universal time is 6:18:30 of A" shows Data effectively, 29 degree 34.0133 minutes north latitude, 106 degree 27.2544minutes east longitude, Speed is 040.0 km/h, The angle is 309.62degree from due north of "L" means total mileage, Unit is meter, Mileage statistic.

Response:	No need response
Instruction:	This message is available to breakpoint offset.

3.2.34 Passing back oil messages regularly and continuously.

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP19	C_STRING	4	
word				
Message		C_STRING	fixed	
Body				

Message Content	With the car	now specific senso	ion in represe	hat oil, "999999" enting wiring is bad, g is bad;
Ending identifier)	CHAR	1	

Example: (013632782450BP19012A06) The first and second byte means is 16advance system Integer, The third byte means is decimal point; Example: 0x01,0x2A,0x06 means 298.6; ohm (013632782450BP19999999) With the car's fuel consumption in representing wiring is bad; (013632782450BP19FFFFF) Show the fuel and terminal wiring is bad; Response: No need response Instruction: This message is available to a part of device,

3.2.35 Response to Setting up opening and closing the timing feedback oil message

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BS24	C_STRING	4	
word				
Message		C_STRING	Fixed	
Body				
Message	Y			

Content	Y: 2Mean successful ,3 Mean failure, 1 byte.	
Ending) CHAR 1	
identifier		
Example:		
(013632782450 BP242) That means closing timing feedback oil message successfully.		
Response:	No need response	
Instruction:	This message is available to a part of device,	

3.2.36 Respond the current black and white list message

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BS25	C_STRING	4	
word				
Message		BYTE	Non Fixed	
Body				
Message	AABBCCCCDD AA : Ask for the file type of the list (HEX)			
Content	1 Ask for black list 2 Ask for white list			
	BB : The file type of the list (HEX)			
	01 Basic list (Default value ,General situation only feedback basic			
	list) 02 Add list 03 Reduce list			
	CCCC : List of file version number (BCD)			
	DD : All frame number (HEX)			
	0; means terminal have no list.			
Ending)	CHAR	1	
identifier				

Example:	
Response:	No need response
Instruction:	

3.2.37 Response to Download the file of black and white list

Message	Message	Type	Length	Instruction
		Турс		mstruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BS10	C_STRING	4	
word				
Message	Message content	ВҮТЕ		
Body				
Message	ABBCCCCDDEEFF AA : Ask for the file type of the list (HEX)			
Content	1 Download black list 2 Download white list			
	l			
	01 Basic list (Default value, General situation only feedback basic			
	list)			
	02 Ad			
	03 Reduce list			
	CCCC: List of file version number(BCD)			
	DD : all frame number (HEX)			2 2 255) (HEV)
	EE : Current frame number (Natural number1,2,3,255) (HEX) FF : = 0 The file list dispose successful (HEX)			
		means not successf		
Ending)	CHAR	1	
identifier				

Example:	
Response:	non

Instruction:	This message is available to a part of device,XIAN of taxi program.

3.2.38 Response to ask for driver on duty

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BS26	C_STRING	4	
word				
Message	Message content	ВҮТЕ		
Body				
Message	AAAAAAA AAAAAAA	: Driver number	(BCD)	
Content				
Ending)	CHAR	1	
identifier				

Example:	
Response:	non
Instruction:	This message is available to a part of device

3.2.39 Response to ask for the software version of the empty taxi lamp

Message	Message	Type	Length	Instruction
Field	Value		(Character)	

Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BS27	C_STRING	4	
word				
Message	Message content	BYTE		
Body				
Message	AABB AA : The fi	rst version number,	(BCD)	
Content	BB : The fir	rst version number,	(BCD)	
Ending)	CHAR	1	
identifier				

Example:	
Response:	non
Instruction:	This message is available to a part of device, XIAN of taxi program.

3.2.40 Response to Download the software of the empty taxi lamp (Upgrade of the software version)

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BS11	C_STRING	4	
word				
Message	Message content	BYTE		
Body				

M	BBCCDDDDEEEEFF				
Message	BB : The first version number (HEX)				
Content	CC : The second version number (HEX)				
	DDDD: All frame number (HEX)				
	EEEE : Current frame number (HEX)				
	FF : Upgrade state (HEX)				
	= 0 Successful				
	Not 0 not successful				
Ending	CHAR 1				
Eliding					
identifier					

Example:	
Response:	non
Instruction:	This message is available to a part of device,XIAN of taxi program

3.2.41 Upload driver message

Message	Message	Туре	Length	Instruction		
Field	Value		(Character)			
Beginning	(CHAR	1			
identifier						
Equipment		C_STRING	12			
Number						
Command	BP23	C_STRING	4			
word						
Message	Message content	BYTE				
Body						
Message	AAAAAAAA : Driver card number (BCD)					
Content	BB : State	(HEX)	, ,			
	= 1 go to					
	= 2 get off work YY: Year (BCD)					
	MM: Month (BCD)					
	DD : Day (BCD)					
	HH : Hour (BCD)					
	MM: Minute (BCD)					
	SS : Second	l (BCD)				

Ending)	CHAR	1	
Ending identifier				
Example:				
Response:	AS23			

This message is available to a part of device, XIAN of taxi program.

3.2.42 Upload TAXI trading record

Instruction:

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	BP24	C_STRING	4	
word				
Message	Message content	ВҮТЕ		
Body				
Message	AAAAAAAAA AAAAAAAA:	INNN Driver card number	(BCD)	
Content	NNNN mean records.	ns xian of the one-ca	ard provision how	w many bytes transaction
Ending)	CHAR	1	
identifier				

Example:	
Response:	AS24
Instruction:	This message is available to a part of device ,XIAN of taxi program.

3.2.43 Response to Center sending Interrupt instant message to the advertising screen

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Equipment		C_STRING	12	
Number				
Command	B S28	C_STRING	4	
word				
Message	Message content	C_STRING		
Body				
Message				
Content				
Ending)	CHAR	1	
identifier				

Example:	
(0136327824	50 BS28)
Response:	non
Instruction:	This message is available to a part of device,

3.2.44 Response to Center sending messages for increasing Conventional Advertisement to adventising screen.

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				

Device number		C_STRING	12	
Command	B S29	C_STRING	4	
word				
Message Body	Message content	C_STRING		
Message				
Content				
Ending)	CHAR	1	
identifier				

Example:				
(013632782450 BS29)				
Response:	non			
Instruction:	This message is available to a part of device,			

3.2.45 Response to Center messages for canceling all of Conventional information to the advertising screen.

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	B S30	C_STRING	4	
word				
Message	Message content	C_STRING		
Body				
Message				
Content				
Ending)	CHAR	1	

identifier							
Example:							
(0136327824	(013632782450 BS30)						
Response:	non						
Instruction:	This message is av	ailable to a part of d	levice,				

3.2.46 Passing back temperature messages regularly and continuously.

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	BP20	C_STRING	4	
word				
Message		C_STRING	Fixed	
Body				
Message	BP20+AB AB	AB AB		
Content	AB: A figure in	nteger, B Figure de	cimal;	
Content	注: "AB" re	spectively four road	l temperature sen	or value;
Ending)	CHAR	1	
identifier				

Example: (013632782450**BP20** 0x1C 0x05 0xFF 0x00 0xFF 0x00 0xFF 0x00) Four road temperature sensor data are below, Figure every road 2 Byte, HEX, FF 00 For initialize value (No connect temperature feeling probe) 1C 05 FF 00 FF 00 FF 00

1C 05 Meaning:	1C Integer	28	Degree	05	Figure decimal 0.5,	1C0528.5
Degree						
* If the temperature 8A-80=0A, (_				vill figure minus .Exam	ple: 8A 05 ,
Response:	No need resp	onse				
Instruction:	This messag	e is ava	ailable to a	part of	f device,	

3.2.47 Answer to Setting up regularly opening and closing feedback Temperature message

N/		T	T (1	T	
Message	Message	Туре	Length	Instruction	
Field	Value		(Character)		
Beginning	(CHAR	1		
identifier					
Device		C_STRING	12		
number					
Command	BS31	C_STRING	4		
word					
Message		C_STRING	Fixed		
Body					
Message	Y				
Content	Y: 2Means suc	ccessful ,3Means fail	lure 1byte.		
Ending)	CHAR	1		
identifier					
Example:	•		•		
(013632782450 BP312) Means shut timing feedback Temperature message successful					
Response:	No need response				
Instruction:	This messag	e is available to a pa	rt of device,		

3.2.48 Passing back direct communication message regularly and continuously

Message	Message	Type	Length	Instruction			
Field	Value		(Character)				
Beginning	(CHAR	1				
identifier							
Device		C_STRING	12				
number							
Command	BP21	C_STRING	4				
word							
Message		C_STRING	Fixed				
Body							
Message	BP21+C+X,X,	BP21+C+X,X,X,X					
Content	C: The extensi	on string group and	the encoding way	, ASCII or character			
	for extension str	for extension string group+ '1', UNICODE code for extension string group+					
	'A', Example	e: when $C = '3'$	For 2 "extension s	string group". ASCII or			
	characters co	characters code; C = 'E' For 4 "extension string group", UNICODE code;					
	X: Terminal state instruction;						
	注: according to "," space describe information terminals;						
Ending)	CHAR	1				
identifier							

Example:	
(013632782450 BP2	1 C 0x7E 0xC8 0x7A 0xEF 0x6E 0x29 0x5E 0xA6 0x4E 0x8C 0x53 0x41
0x51 0x6B 0x5E 0x	A6 , 0x00 0x47 0x00 0x50 0x00 0x53 0x59 0x29 0x7E 0xBF 0x53
0xEF 0x80 0xFD 0x	x88 0xAB 0x52 0x07 0x65 0xAD)
C ;2 "extension strin	g group"、UNICODE code;
"Terminal temperat	ture is 28 degrees, GPS antenna may be cut off "
Response:	No need response
Instruction:	This message is available to a part of device,

3.2.49 Response to Setting up regularly opening and closing feedback direct communication message

Message	Message	Type	Length	Instruction	
Field	Value		(Character)		
Beginning	(CHAR	1		
identifier					
Device		C_STRING	12		
number					
Command	BS32	C_STRING	4		
word					
Message		C_STRING	Fixed		
Body					
Message	Y				
Content	Y: 2Means suc	ccessful,3Means fail	ure, 1Byte.		
Ending)	CHAR	1		
identifier					
Example:					
(013632782450BP322) Means shut timing feedback direct communication					
message successful.					
Response:	No need response				
Instruction:	This messag	e is available to a pa	rt of device,		

3.2.50 Respond Issue telephone message

Message	Message	Type	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Device number		C_STRING	12	

Command	BS32	C_STRING	4	
word				
Message Body	Message content	C_STRING		
Message				
Content				
Ending)	CHAR	1	
identifier				

Example:						
(0136327824	(013632782450 BS32)					
Response:	non					
Instruction:	This message is available to a part of device,					

3.2.51The LCD display screen sends rob Vehicle message to the center

Message	Message	Туре	Length	Instruction		
Field	Value		(Character)			
Beginning	(CHAR	1			
identifier						
Device number		C_STRING	12			
Command	BR07	C_STRING	4			
word						
Message Body	Message content	C_STRING				
Message	A A: one byte					
Content	0x04Vel	nicle send to centerV	ies to answer firs	t order, Only take order		
	number;	number;				
	0x05Vehicle send to center cancel order, take the order number and					
	why cancel content.					
	0x06Vehicles send to the center success passenger, take the order					
	number.					

Ending)	CHAR	1	
identifier				

Example:				
(013632782450 BR07 0x04)				
_				
Response:	non			
Instruction:	This message is available to a part of device,			
mstruction.	This message is available to a part of device ;			

3.2.52 Response to Center messages for canceling sending Conventional Advertisement to the advertising screen

Message	Message	Туре	Length	Instruction
Field	Value		(Character)	
Beginning	(CHAR	1	
identifier				
Device		C_STRING	12	
number				
Command	BS33	C_STRING	4	
word				
Message	Message content	C_STRING		
Body				
Message				
Content				
Ending)	CHAR	1	
identifier				

Example:		
(013632782450 BS33)		

Response:	non
Instruction:	This message is available to a part of device,

3.2.53 Response to setting up intervals and times for regularly taking picture

Message Field	Message Value	Туре	Length (Character)	Instruction	
Beginning identifier	(CHAR	1		
Device number		C_STRING	12		
Command word	BY03	C_STRING	4		
Message Body		C_STRING			
Message Content					
Ending identifier)	CHAR	1		
Example:					
(013632782450 BY03)					
Response:	Non need re	sponse			
Instruction:					

ppendix

4.1. The format definition of GPS location message

Message	Message Value	Туре	Length		Instruc	ction	
Field			(Character)				
Time	YYMMDD	N_ST	6	Two	bytes	for	each
		RING		year/month/day			

The		СНА	1	"A" or "V". "A" means
availability of		R		the availability of GPS
GPS data				data, "V" means the
Of 5 data				invalidation of GPS data.
Latitude		N_ST	9	The unit is degree for he
Latitude		RING	9	_
		KING		front two bytes, from
				$0 \sim 90$; the unit is cent
	(27)	CTT		for later seven bytes.
Latitude	"N" or "S"	СНА	1	"N" means north
indicator		R		latitude, "S" means
				south latitude
Longitude		N_ST	10	The unit is degree for he
		RING		front three bytes, from
				$0 \sim 180$; the unit is cent
				for later seven bytes
Longitude	"E" or "W"	CHA	1	"E" means east
indicator		R		longitude, "W" means
				west longitude
Speed		N ST	5	The unit is km/h
		RING		
Time	HHMMSS	N ST	6	Two bytes of the
		RING		year/month/day
Orientation		N ST	6	Jane
		RING		
	1:Main power, '0'			The 8 bits of IO
	means ont			
	power ,'1' means			
	off power.			
IO State	2:ACC, <i>'0'ACC</i>	N ST	8	
10 State	close, 'I'ACC open.	RING		
	3: blender, '0' <i>Did</i>	Idi		
	not.start, 'I 'Just			
	turning, '2' reverse			
	_			
	turning.			
	4:Empty/heavy			
	vehicles,0' Did			
	not.start, '1'Empty, '2			
	'Heavy .			
	5:Front door, O'Did			
	not start, '1' open, '2			
	close 。			
	6:back door 0'Did			
	not			
	start, '1'open, '2'clos			

	e. 7: Put back to sign, 0'Did not start, '1'Put sign, '2' Refund sign. 8: vibration, 0'Did not start, '1'vibration, '2 Not vibration.			
Milepost		CHA R	1	"L" mean Mileage
Mile data	The total mileage. The max is 0xFFFFFFF	H_ST RING	8	Mile data, Unit: Meter