MEITRACK SMS Protocol

Applicable Model: MT90

MVT100/MVT340/MVT380/MVT600/T1/T3/

T333/MVT800/T322X/TC68S/T355/T311/P66

Change History

File Name	MEITRACK SMS Protocol	Created By	Renny Lee
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1 Command Format

1.1 SMS Command Format

- SMS command sent from a mobile phone to the tracker:

  Password,<Command type>,<Command text>

  *Note: The password consists of 4 digits. The default password is **0000**.*

- SMS command sent from the tracker to a mobile phone:

  1. Reply

     IMEI, <*Command type*>,OK

  2. Location report

     SMS header,Date and time,Positioning status,GSM signal strength,Speed,Remaining battery capacity,Map link

SMS example:

Now,110721 16:40,V,12,56Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235

Descriptions about SMS data are as follows:

Parameter	Description	Example
SMS header	Indicates the SMS report type. For details, see section 1.2 "Event Code and SMS Header."	Now
Date and time	Format: YYMMDD hh:mm **YY** indicates year. **MM** indicates month. **DD** indicates date. **hh** indicates hour. **mm** indicates minute. Decimal	110721 16:40
Positioning status	Indicates the GPS signal status. **A** = Valid **V** = Invalid	A
GSM signal strength	Its value ranges from 0 to 31. Decimal GPRS data can be sent successfully only when the value is more than 16.	12
Speed	Unit: km/h Decimal	56
Remaining battery capacity	Indicates the remaining capacity of the built-in battery.	97%
Map link	Indicates the map link with a latitude and longitude. You can visit the website through a mobile phone. If you cannot visit HTTP websites through a mobile phone, enter the latitude and longitude in Google Maps (maps.google.com).	http://maps.meigps.com/?lat=22.513015&l ng=114.057235 Latitude: 22.513015 Longitude: 114.057235

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1.2 Event Code and SMS Header

OBD-related events are numbered from 129.

Event Code	Event	Default SMS Header (At Most 16 Bytes)
1	**SOS Pressed**	SOS
2	**Input 2 Active**	Ignition On: MVT100&MVT340&T322X Door Open: MVT380&MVT600&T1&MVT800&T333&T3 In2 Active: Other models
3	**Input 3 Active**	Ignition On: MVT600&T1&T333 &T3 Door Open: MVT800&T322X In3 Active: other models
4	**Input 4 Active**	Ignition On: MVT380&MVT800 In4 Active: other models
5	**Input 5 Active**	In5 Active
9	**Input 1 Inactive**	In1 Inactive
10	**Input 2 Inactive**	Ignition Off: MVT100&MVT340&T322X Door Close: MVT380&MVT600&T1&MVT800&T333&T3 In2 Inactive: other models
11	**Input 3 Inactive**	Ignition Off: MVT600&T1&T333&T3 Door Close: MVT800&T322X In3 Inactive: other models
12	**Input 4 Inactive**	Ignition Off: MVT380&MVT800 In4 Inactive: other models
13	**Input 5 Inactive**	In5 Inactive: other models
17	**Low Battery**	Low Battery
18	**Low External Battery**	Low Ext-Battery
19	**Speeding**	Speeding
20	**Enter Geo-fence**	Enter Fence N (N means the number of the fence)
21	**Exit Geo-fence**	Exit Fence N (N means the number of the fence)
22	**External Battery On**	Ext-Battery On Tracker connected: TC68S
23	**External Battery Cut**	Ext-Battery Cut Tracker removed: TC68S
24	**Lose GPS Signal**	Lose GPS Signal
25	**GPS Signal Recovery**	GPS Recovery
26	**Enter Sleep**	Enter Sleep
27	**Exit Sleep**	Exit Sleep
28	**GPS Antenna Cut**	GPS Antenna Cut
29	**Device Reboot**	Power On
31	**Heartbeat**	/
32	**Heading Change**	Heading Change
33	**Distance Interval Tracking**	Distance
34	**Reply Current (Passive)**	Now

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35	**Time Interval Tracking**	Interval
36	**Tow**	Tow
37	**RFID**	(only for GPRS)
39	**Picture**	(only for GPRS)
40	**Power Off**	Power Off
41	**Stop Moving**	Stop moving
42	**Start Moving**	Start Moving
44	**GSM Jammed**	GSM Jammed
50	**Temperature High**	Temp High
51	**Temperature Low**	Temp Low
52	**Fuel Fulled**	Fuel Full
53	**Fuel Empty**	Fuel Empty
54	**Fuel Stolen**	Fuel Steal
56	**Armed**	Armed
57	**Disarmed**	Disarmed
58	**Stealing**	Stealing
63	**GSM No Jamming**	GSM No Jamming
65	**Press Input 1 (SOS) to Call**	/
66	**Press Input 2 to Call**	/
67	**Press Input 3 to Call**	/
68	**Press Input 4 to Call**	/
69	**Press Input 5 to Call**	/
70	**Reject Incoming Call**	/
71	**Get Location by Call**	/
72	**Auto Answer Incoming Call**	/
73	**Listen-in (Voice Monitoring)**	/
79	**Fall**	Fall
80	**Install**	Install
81	**Drop Off**	Drop Off
139	**Maintenance Notice**	Maintenance

Note: Data in the above figure is the default settings before delivery.

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2 Command List

Command	Command Description	Applicable Model
A00	Real-Time Location Query	All
A02	Track by Time Interval (SMS)	All
A10	Real-Time Longitude and Latitude Query	All
A12	Track by Time Interval (GPRS)	All
A13	Setting the Heading Change Report Function	All
A14	Track by Distance	All
A15	Setting the Parking Scheduled Tracking Function	MVT100/340/380/600/T1/MVT800/T333/T3
A16	Enabling the Parking Scheduled Tracking Function	MVT100/340/380/600/T1/MVT800/T333/T3
A17	Enabling or Disabling the RFID Control OUT1 Function	MVT600/T1/T333/T3
A19	3D-Shake Wake Up	MT90
A21	Setting GPRS Parameters	All
A22	Setting the DNS Server IP Address	All (excluding T322X/T355)
A23	Setting the Standby GPRS Server	All (excluding T322X)
A29	Setting a Man Down Alarm	MT90
A55	Setting Roaming and Track by Time Interval	All (excluding T322X/T355)
A70	Reading All Authorized Phone Numbers	All
A71	Setting a Combined Function Phone Number	All
A72	Setting a Listen-in Phone Number	All (excluding T322X/T355/MVT340)
A73	Setting the Smart Sleep Mode	All
A75	Querying the SIM Card Balance	T1/MVT600/MT90/MVT340/MVT380/MVT100 /T333/T3
A81	Setting APN Parameters	Trackids
B05	Setting a Geo-Fence	All
B06	Deleting a Geo-Fence	All
B07	Setting the Speeding Alarm Function	All
B08	Setting the Towing Alarm Function	All (excluding T322X/T355)
B21	Setting the Anti-Theft Function	MVT100/340/380/600/T1/MVT800/T333/T322 X/T3/T355/T311
B31	Turning Off the Indicator	All (excluding T322X/T355)
B34	Setting a Log Interval	All (excluding MVT340/T322X/T355)
B35	Setting the SMS Time Zone	All

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B36	Setting the GPRS Time Zone	All (excluding T355)
B60	Checking the Engine First to Determine Tracker Running Status	MVT100/380/600/T1/MVT800/T333/T3
B91	Setting SMS Event Characters	All (excluding T322X)
B99	Setting Event Authorization	All
C01	Output Control	MVT100/340/380/600/T1/MVT800/T333/T3
C03	Setting a GPRS Event Transmission Mode	All (excluding T322X/T355)
C11	SMS Display (LCD Display)	MVT600/T1/T333/T3
C49	Setting a Fuel Theft Alarm	MVT600/T1/MVT800/T333/T3
D10	Authorizing an RFID Card	MVT600/T1/T333/T3
D11	Authorizing RFID Cards in Batches	MVT600/T1/T333/T3
D14	Deleting an Authorized RFID	MVT600/T1/T333/T3
D15	Deleting Authorized RFIDs in Batches	MVT600/T1/T333/T3
E91	Reading the Tracker Firmware Version and SN	All
F01	Restarting the GSM Module	All (excluding T322X)
F02	Restarting the GPS Module	All (excluding T322X)
F08	Setting the Mileage and Run Time	All
F09	Deleting SMS/GPRS Cache Data	All
F11	Restoring Initial Settings	All
F20	Changing the Tracker Password	All
FAB	Initializing the Tracker Password	All

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3 Command Details

3.1 Real-Time Location Query – A00

SMS Sending	0000,A00
SMS Reply	Now,*Date and time*,*Positioning status*,*GSM signal strength*,*Speed*,*Remaining battery capacity*,*Map link*
Description	Query the tracker location. For details, see section 1.2 "Event Code and SMS Header."
Applicable Model	All
Example	
SMS Sending	0000,A00
SMS Reply	Now,110721 16:40,V,12,56Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235

3.2 Tracking by Time Interval (SMS) – A02

SMS Sending	0000,A02,*Interval*,*No. of times*,*Phone No.*
SMS Reply	IMEI,A02,OK
Description	Interval = 0: function disabled (default). Interval = [1…65535]: function enabled. Unit: minute. No. of times = 0: uninterrupted data reporting (used in the platform). No. of times = [1…255]: won't stop reporting until the number of reporting times reaches the preset value. Phone No.: indicates the phone number where data is sent.
Applicable Model	All
Example	
SMS Sending	0000,A02,10,0
SMS Reply	353358017784062,A02,OK *After the above command is run successfully, the preset phone number will receive a positioning SMS every 10 minutes.* Interval,110721 16:40,V,12,56Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235

3.3 Real-Time Longitude and Latitude Query – A10

SMS Sending	0000,A10
SMS Reply	IMEI,Now,<->*Latitude*,<->*Longitude*,*Date and time*, *Positioning status*,*Number of satellites*,*GSM signal strength*,*Speed*,*Direction*,*Horizontal dilution of precision (HDOP)*,*Altitude*,*Mileage*,*Run time*,,*I/O port status*,,
Description	Query the tracker location. The reply content is in longitude and latitude format. When A10 is used, if the tracker GPRS function is enabled and parameters are correct, the tracker will send a

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	piece of GPRS location data whose event type is 34 to the server. The function is available for users who implement platform tracking using an SMS modem.
Applicable Model	All
Example	
SMS Sending	0000,A10
SMS Reply	353358017784062,Now,22.535888,114.063034,080310161834,A,9,27,30,179,0,15,8890,1346,,0000,,

3.4 Tracking by Time Interval (GPRS) – A12

SMS Sending	0000,A12,*Interval*
SMS Reply	IMEI,A12,OK
Description	Unit: x10 seconds Set the GPRS tracking time interval. Interval = 0: function disabled. The maximum time interval is 65535 x 10 seconds. Note: If data needs to be sent at a specific time interval after the vehicle starts or stops, the function needs to work with the A15 function. For details, see A15 and A16 commands.
Applicable Model	All
Example	
SMS Sending	0000,A12,6
SMS Reply	353358017784062,A12,OK

3.5 Setting the Heading Change Report Function – A13

SMS Sending	0000,A13,*Angle*
SMS Reply	IMEI,A13,OK
Description	When the driving angle exceeds the preset value, the tracker will send an SMS with the location to the authorized phone number. Angle = 0: function disabled (default). Angle = [1…359]: function enabled. For the T322X, **15** is recommended. For other trackers, **30** is recommended.
Applicable Model	All
Example	
SMS Sending	0000,A13,30
SMS Reply	353358017784062,A13,OK

3.6 Tracking by Distance – A14

SMS Sending	0000,A14,*Distance*
SMS Reply	IMEI,A14,OK
Description	Distance = 0: function disabled (default).

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	Distance = [1…65535]: function enabled. Unit: meter. Note: When both the GPRS time interval and distance tracking functions are enabled, the "first reach first report" rule will be applied. For example, set the time interval to 6 x 10 seconds and distance to 200 meters. If the road is clear, a distance data packet will be reported first; if there is heavy traffic on the road, a time interval data packet will be reported first. Then both the time interval and distance counters will be reset to 0.
Applicable Model	All
Example	
SMS Sending	0000,A14,1000
SMS Reply	353358017784062,A14,OK *After the above command is run successfully, if the driving distance reaches 1000m, the tracker will send a data packet to the preset authorized phone number.* Distance,110721 16:40,V,12,56Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235

3.7 Setting the Parking Scheduled Tracking Function – A15

SMS Sending	0000,A15, *Interval*
SMS Reply	IMEI,A15,OK
Description	The function is available for vehicle trackers only. With the function, the number of GPRS messages is reduced, and thus GPRS traffic is saved. After the A15 function is set, the A16 function is automatically enabled. For details about engine status, see section 3.8 "Enabling the Parking Scheduled Tracking Function – A16." Interval unit: x10 seconds Interval = 0: function disabled. The maximum interval is 65535 x 10 seconds.
Applicable Model	MVT100/MVT340/MVT380/MVT600/T1/MVT800/T322X/T333/T3
Example	
SMS Sending	0000,A15,6
SMS Reply	353358017784062,A15,OK

3.8 Enabling the Parking Scheduled Tracking Function – A16

SMS Sending	0000,A16,*Status*
SMS Reply	IMEI,A16,OK
Description	**Related input ports (high level) of vehicle trackers must connect to engine detection. Otherwise, the function is unavailable. The first positive input port of vehicle trackers are as follows:**

Vehicle Tracker	First Positive Input Port
MVT100	Input port 2
MVT340	Input port 2
MVT380	Input port 4

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	MVT600 Input port 3 T1/T333/T3 Input port 3 MVT800 Input port 4 T322X Input port 2 When the activation status is **1**, the parking scheduled tracking function is enabled, and GPRS data is sent at the following interval: ● Interval of the A12 function when the engine is on ● Interval of the A15 function when the engine is off When the activation status is **0**, the parking scheduled tracking function is disabled, and GPRS data is sent at the following interval: ● Interval of the A12 function when the engine is on ● Interval of the A12 function when the engine is off Note: The TC68S can determine whether the engine is activated based on vehicle voltage.
Applicable Model	MVT100/MVT340/MVT380/MVT600/T1/MVT800/TC68S/T322X/T333/T3
Example	
SMS Sending	0000,A16,0
SMS Reply	353358017784062,A16,OK

3.9 Enabling/Disabling the RFID Control OUT1 Function (MVT600/T1/T333/T3) – A17

SMS Sending	0000,A17,X
SMS Reply	IMEI,A17,OK
Description	X = 1: function enabled. Before using the function, you must ensure: 1. ACC detection is connected to input 3; 2. A RFID card has been authorized. X = 0: function disabled (default). For example: After swiping the authorized RFID card, you must start the engine within 1 minute. If time expires, you need to swipe the card again. After the engine is started, input 3 continues to monitor ACC status. At this time, ACC is on and output 1 remains closed. After 1 minute, when input 3 detects ACC OFF, swipe the authorized RFID card to restart the engine. Note: If the function is enabled, OUTPUT1 is activated. For details about how to authorize a RFID, see commands D10–D15.
Applicable Model	MVT600/T1/T333/T3
Example	
SMS Sending	0000,A17,0
SMS Reply	353358017784062,A17,OK

3.10 3D-Shake Wake Up (MT90) – A19

SMS Sending	0000,A19,X
SMS Reply	IMEI,A19,OK

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Description	When wakeup is not required in the sleep mode, *X* is set to **0**. When vibration and wakeup are required in the deep sleep mode, *X* is set to **1** (default value).
Applicable Model	MT90
Example	
SMS Sending	0000,A19,0
SMS Reply	353358017784062,A19,OK

3.11 Setting GPRS Parameters – A21

SMS Sending	0000,A21,*Connection mode*,*IP address*,*Port*,*APN*,*APN user name*,*APN password*
SMS Reply	IMEI,A21,OK
Description	Connection mode = 0: function disabled. Connection mode = 1: function enabled; use TCP/IP reporting mode. Connection mode = 2: function enabled; use UDP reporting mode. IP address: IP address or domain name. A maximum of 32 bytes are supported. Port: a maximum of 5 digits. APN/APN user name/APN password: a maximum of 32 bytes respectively. If no user name and password are required, leave them blank.
Applicable Model	All
Example	
SMS Sending	0000,A21,1,67.203.13.26,8800,*APN*,*APN username*,*APN password*
SMS Reply	353358017784062,A21,OK

3.12 Setting the DNS Server IP Address – A22

SMS Sending	0000,A22, *DNS server IP address*
SMS Reply	IMEI,A22,OK
Description	An incorrect DNS server IP address may lead to GPRS data reporting failures after the A21 command is used. Use the A22 command to set the DNS server IP address (confirm the IP address with your domain name provider.). Then use the A21 command to reset the domain name. DNS server IP address: a maximum of 16 bytes
Applicable Model	Excluding T322X/T355
Example	
SMS Sending	0000,A22,202.105.21.232
SMS Reply	353358017784062,A22,OK *The command is used to set the Oray DNS server IP address.*

3.13 Setting the Standby GPRS Server – A23

SMS Sending	0000,A23,*IP address*,*Port*

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SMS Reply	IMEI,A23,OK
Description	IP address: a maximum of 32 bytes Port: a maximum of 5 digits When the tracker fails to send data to the active server set by command A21, data is automatically sent to the standby server to prevent data loss.
Applicable Model	Excluding T322X
Example	
SMS Sending	0000,A23,67.203.13.26,8800
SMS Reply	353358017784062,A23,OK

3.14 Setting a Man Down Alarm – A29

SMS Sending	0000,A29,*Switch*,*Time*,*Grade*,*Wait time*
SMS Reply	IMEI,A29,OK
Description	1. Switch: indicates the man down alarm detection switch. Value range: 0–1. When the parameter value is **1**, the man down alarm function is enabled. When the parameter value is **0**, the man down alarm function is disabled. The default value is **0**. 2. Time: indicates the buzzing and vibration duration after falling. In this period, you can press any button to clear the alarm, and thus avoid inaccurate alarm information. After the period, an alarm will be generated or a call will be made. The parameter unit is second. Value range: 0–255. Default value: 10. 3. Grade: indicates the man down alarm grade. Its value ranges from 0 to 3 and it is in decimal format. The default value is **1**. The smaller the value is, the high probability an alarm is generated. 4. Wait time: indicates the still duration after falling. The parameter unit is second. Value range: 0–65535. The default value is **0**. If the still duration after falling exceeds the preset value, a Man Down alarm will be generated.
Applicable Model	MT90
Example	
SMS Sending	0000,A29,1,10,1,0
SMS Reply	353358017784062,A29,OK

3.15 Setting Roaming and Track by Time Interval – A55

SMS Sending	0000,A55,*Scheduled mode*,T1,T2,T3,T4
SMS Reply	IMEI,A55, <*Scheduled mode*,T1,[T2],[T3],[T4]>
Description	1. Scheduled mode: decimal. Its value is the combinations of ACC ON, ACC OFF, Local, and Roaming. ● **T1**: indicates the data uploading interval which is not restricted by ACC ON and roaming. The functions are the same as that of A12. ● **T2**: indicates the data uploading interval when ACC OFF or ACC OFF in Local mode. ● **T3**: indicates the data uploading interval when ACC ON in Roaming mode, or

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the interval which is not restricted by roaming when ACC OFF.

- **T4**: indicates the data uploading interval when ACC OFF in Roaming mode.

2. The following combined scheduled modes are supported:
   - Mode 0 (T1): The functions are the same as that of A12. All data will be uploaded at the T1 interval. The command format is **A55,0,T1**. Other parameters such as T2 and T3 will be invalid.
   - Mode 1 (T1 + T2): The functions are the same as that of A12 and A15. Parameter **T1** is the data uploading interval when ACC ON. Parameter **T2** is the data uploading interval when ACC OFF. The command format is **A55,1,T1,T2**.
   - Mode 2 (T1 + T3): In Local mode, parameter **T1** is the data uploading interval. In roaming mode, parameter **T3** is the data uploading interval. The command format is **A55,2,T1,T3**.
   - Mode 3 (T1 + T3 + T4): In Local mode, parameter **T1** is the data uploading interval and the interval is not restricted by the engine status. In roaming mode, when the engine starts, parameter **T3** is the data uploading interval; when the engine stops, parameter **T4** is the data uploading interval. The command format is **A55,3,T1,T3,T4**.
   - Mode 4 (T1 + T2 + T3 + T4): In Local mode, when the engine starts, parameter **T1** is the data uploading interval; when the engine stops, parameter **T2** is the data uploading interval. In Roaming mode, when the engine starts, parameter **T3** is the data uploading interval; when the engine stops, parameter **T4** is the data uploading interval.
3. After a GPRS interval is set by using the A55 command, the tracker will reply the interval parameters. If only **0000,A55** is sent, read tracker GPRS interval parameters.

Applicable Model

Tracker	Mode 0	Mode 1	Mode 2	Mode 3	Mode 4
T1/T333/T3	√	√	√	√	√
MVT600	√	√	√	√	√
MVT800	√	√	√	√	√
MVT380	√	√	√	√	√
MVT100	√	√	√	√	√
MT90	√		√		
TC68S	√		√		
T355	√	√	√	√	√

Example

SMS Sending	0000,A55,0.6
SMS Reply	353358017784062,A55,0,6

3.16 Reading All Authorized Phone Numbers – A70

SMS Sending	0000,A70

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SMS Reply	*IMEI*,A70,*SOS phone number 1*,*SOS phone number 2*,*SOS phone number 3*,*Listen-in phone number 1*,*Listen-in phone number 2*
Description	Read all authorized phone numbers.
Applicable Model	All
Example	
SMS Sending	0000,A70
SMS Reply	353358017784062,A70,13811111111,13822222222,13833333333,13844444444,13855555555

3.17 Setting a Combined Function Phone Number – A71

SMS Sending	0000,A71,*Phone number 1*,*Phone number 2*,*Phone number 3*
SMS Reply	IMEI,A71,OK
Description	Phone number: A phone number has a maximum of 16 bytes. If no phone numbers are set, leave them blank. Phone numbers are empty by default. Phone number 1/2/3: Set the phone number to the SOS phone number. When you call the tracker by using the phone number, the tracker will reply an SMS with the location and send geo-fence alarms and low power alarms. When the SOS button is pressed, the tracker will dial phone numbers 1, 2, and 3 in sequence. The tracker stops dialing when a phone number responds. Note: If no phone numbers are set and commas are remained, phone numbers set before will be deleted. In addition, alarm events will be overlapped. If all combined function phone numbers need to be deleted, send **0000,A71**.
Applicable Model	All
Example	
SMS Sending	0000,A71,13811111111,13822222222,13833333333
SMS Reply	353358017784062,A71,OK

3.18 Setting a Listen-in Phone Number – A72

SMS Sending	0000,A72,*Listen-in phone number 1*,*Listen-in phone number 2*
SMS Reply	IMEI,A72,OK
Description	When you call the tracker by using the authorized listen-in phone number, the tracker will answer the call automatically and enter the listen-in state. In this way, the tracker will not make any sound. A maximum of two phone numbers can be set. Each phone number has a maximum of 16 digits. If no phone numbers are set, leave them blank. Phone numbers are empty by default. If no phone numbers are set and commas are remained, phone numbers set before will be deleted. If all phone numbers need to be deleted, send **0000,A72**.
Applicable Model	Excluding T322X/T355/MVT340
Example	

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SMS Sending	0000,A72,13844444444,13855555555
SMS Reply	353358017784062,A72,OK

3.19 Setting the Smart Sleep Mode – A73

SMS Sending	0000,A73,*Sleep level*
SMS Reply	IMEI,A73,OK
Description	Set the automatic smart sleep mode when the tracker is idle. Sleep level = 0: function disabled (default). Sleep level = 1: normal sleep. The GSM module always works, and the GPS module occasionally enters the sleep mode. The tracker works 25% longer in the normal sleep mode than that in the normal working mode. This mode is not recommended for short interval tracking; this will affect the route precision. Sleep level = 2: deep sleep. If no event is triggered after five minutes, the GPS module will stop and the GSM module will enter sleep mode. Once an event is triggered, the GPS and GSM modules will be woken up. A heartbeat event will be triggered only in the deep sleep mode, which will be uploaded every one hour by default. Triggering events include: SOS alarm, low internal/external battery, external power status, GPS antenna cutoff alarm, towing alarm, high temperature, low temperature, fuel stealing, vehicle stealing, ACC ON, (button) changes on any input port, vibration, incoming call, SMS receiving, call, and heartbeat event (The GPS is disabled during heartbeat wakeup.). Note: ● T355 is in deep sleep mode by default. If no event (drop/incoming call/SMS/vibration) is triggered after five minutes, the tracker will enter deep sleep mode. In this way, a triggering event (drop/incoming call/SMS/vibration) can wake the device up, and then the device will enter working mode. In deep sleep mode, if no event (drop/incoming call/SMS/vibration) is triggered within 25 minutes, the device will automatically enter super power-saving mode. In this mode, only a drop or vibration event can wake the device up. GPS and GSM modules can be enabled intelligently based on vehicle driving status, which saves power. ● The MT90 can enter sleep mode under vibration, and vibration cannot wake the MT90 up from sleep mode. If the A19 command is enabled, the MT90 can be woken up. By default, MT90 cannot be woken up by vibration. ● After the T322X stops working for 15 minutes, it automatically enters the power-saving sleep mode. In this way, the GPS module does not work, and the T322X does not upload tracking data at a regular interval. Instead, the T322X sends heartbeat data packets about the positioning cease (GPS invalid) to the platform every 60 minutes. The interval for sending heartbeat packets can be changed. If the T322X vibrates, the T322X will be woken up, continue to work normally, and report data including heartbeat packets at a regular interval. ● In any condition, you can use an SMS or a GPRS command to disable the sleep

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	mode, and then the tracker exits the sleep mode and returns back to the normal working mode.
Applicable Model	All
Example	
SMS Sending	0000,A73,2
SMS Reply	353358017784062,A73,OK

3.20 Querying the SIM Card Balance – A75

SMS Sending	0000,A75, <Ussd code>/<Type,Code/Num,Content>
SMS Reply	IMEI,A75, <content>
Description	1. Support USSD commands, calling (not allow voice menus), and SMS. 2. Parameters will not be saved. Query commands: ● Type: indicates the service type (USSD, call, and SMS). The letters can be detected when they are uppercase. ● Code: indicates the USSD command code for balance query. ● Num: indicates the telephone number. ● Content: indicates the text for SMS query. ● Ussd code: indicates the USSD code text for balance query. e.g. A75,*120#﹤Send a command for USSD balance query. Forward to the preset phone number.> A75,ussd,*120#<Send a command for USSD balance query. Forward to the preset phone number.> A75,call,1008611<Call to query the balance. Forward an SMS to the preset phone number or platform.> A75,call,10010111<Call to query the balance. Forward an SMS to the preset phone number or platform.> A75,sms,10010,cxye<Send an SMS to query. Parse the long SMS by PDU UCS2. Forward the SMS to the platform or the preset phone number.> 3. The query results will be sent to the phone number or platform by PDU UCS2. Long SMSs need to be supported.
Applicable Model	T1/MVT600/MT90/MVT340/MVT380/MVT100/T333/T3
Example	
SMS Sending	0000, A75,*120#
SMS Reply	A75,Saldo 37,71kr. Kortet giltigt till 2014-07-03. Basprislista 1,99kr/min till alla och sms 0,99 kr/st. Ladda f|r att ringa billigare, se telia.se/refill.

3.21 Setting APN Parameters – A81

SMS Sending	0000,A81,APN,APN-USNAME,APN-PASSWD
SMS Reply	IMEI,A81,OK
Description	APN: max 32 bytes

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	APN-USNAME: indicates the APN user name; max 32 bytes APN-PASSWD: indicates the APN password; max 32 bytes For example: "0000,A81,CMNET,,", which indicates that the APN is CMNET, and the user name and password stay unchanged. Note: You must enter complete command (3 commas are a must). If there is a parameter after a comma, it means that the parameter is changed. If not, the parameter stays unchanged.
Applicable Model	Trackids
Example	
SMS Sending	0000,A81,CMNET,,
SMS Reply	353358017784062,A81,OK

3.22 Setting a Geo-Fence – B05

SMS Sending	0000,B05,*Geo-fence number*,*Latitude*,*Longitude*,*Radius*,*IN Geo-fence alarm*,*OUT Geo-fence alarm*
SMS Reply	IMEI,B05,OK
Description	Geo-fence number: 1–8. A maximum of eight geo-fences can be set. Latitude: latitude of the geo-fence center; decimal; accurate to 6 digits after the decimal point. If there are only 4 digits after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully. Longitude: longitude of the geo-fence center; decimal; accurate to 6 digits after the decimal point. If there are only 4 digits after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully. Radius: The value ranges from 1 to 4294967295. The unit is meter. IN Geo-fence alarm = 0: function disabled. IN Geo-fence alarm = 1: function enabled. OUT Geo-fence alarm = 0: function disabled. OUT Geo-fence alarm = 1: function enabled.
Applicable Model	All
Example	
SMS Sending	0000,B05,1,22.913191,114.079882,1000,0,1
SMS Reply	353358017784062,B05,OK *When the tracker exits the geo-fence (latitude: 22.913191; longitude: 114.079882; radius: 1000m), the tracker will send the following alarm information to the preset authorized phone number:* *Exit GEO ,110721* *16:40,V,12,56Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235*

3.23 Deleting a Geo-Fence – B06

SMS Sending	0000,B06,Geo-fence number
SMS Reply	IMEI,B06,OK

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Description	Geo-fence number: 1–8. Only one geo-fence can be deleted each time by SMS or GPRS command.
Applicable Model	All
Example	
SMS Sending	0000,B06,1
SMS Reply	353358017784062,B06,OK

3.24 Setting the Speeding Alarm Function – B07

SMS Sending	0000,B07,*Driving speed*
SMS Reply	IMEI,B07,OK
Description	Driving speed = 0: function disabled (default). Driving speed = [1…255]: function enabled. Unit: km/h. When the driving speed reaches the preset value, a speeding alarm will be generated.
Applicable Model	All
Example	
SMS Sending	0000,B07,60
SMS Reply	353358017784062,B07,OK *When the tracker driving speed reaches 60 km/h, the tracker will send the following alarm information to the preset authorized phone number:* *Speeding,110721* *16:40,V,12,61Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235*

3.25 Setting the Towing Alarm Function – B08

SMS Sending	0000,B08,*Vibration duration*
SMS Reply	IMEI,B08,OK
Description	When the tracker's vibration duration exceeds the preset value, the tracker will send an alarm to an authorized phone number or the server. Before using the towing alarm function, ensure that the smart sleep level is set to **2** by using the A73 command and the consecutive vibration duration is set by using the B08 command. Otherwise, the towing alarm function is unavailable. Vibration duration = 0: function disabled (default). Vibration duration = [1…255]: function enabled. Unit: second.
Applicable Model	Excluding T311/T355
Example	
SMS Sending	0000,B08,3
SMS Reply	353358017784062,B08,OK *When the tracker vibrates for more than consecutive three seconds, the tracker will send the following alarm information to the preset authorized phone number:* *Tow,110721* *16:40,V,12,56Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235*

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3.26 Setting the Anti-Theft Function – B21

<table>
<tr><td>SMS Sending</td><td>0000,B21,Status</td></tr>
<tr><td>SMS Reply</td><td>IMEI,B21,OK</td></tr>
<tr><td>Description</td><td>Status = 1: function enabled (default). An alarm is generated when the first negative input and first positive input of vehicle trackers excluding SOS are activated. For example, an alarm is generated when input 3 or 4 of the MVT800 is activated or input 2 or 3 of the T322X is activated.
Status = 0: function disabled. No alarm is generated when the first negative input and first positive input of vehicle trackers excluding SOS are activated. Recorded data can only be read by GPSLog or Meitrack Manager software.
Note: The function is only available for MVT series, T1, and T322X vehicle trackers. The following lists inputs of trackers:
<table>
<tr><th>Tracker</th><th>Negative Input (Vehicle Door)</th><th>Positive Input (ACC)</th></tr>
<tr><td>MVT100</td><td>-</td><td>Input 2</td></tr>
<tr><td>MVT340</td><td>-</td><td>Input 2</td></tr>
<tr><td>MVT380</td><td>Input 2</td><td>Input 4</td></tr>
<tr><td>MVT600</td><td>Input 2</td><td>Input 3</td></tr>
<tr><td>T1/T333/T3</td><td>Input 2</td><td>Input 3</td></tr>
<tr><td>MVT800</td><td>Input 3</td><td>Input 4</td></tr>
<tr><td>T322X</td><td>Input 3</td><td>Input 2</td></tr>
</table>
Note: When the T322X/MVT800 is in arming state and input 3 is triggered, a vehicle stealing alarm will be generated, the buzzer makes a sound, and the tracker makes a call and sends an SMS to the authorized phone number. In this way, if T322X input 2/MVT800 input 4 is triggered, output 1 is activated and the tracker makes a call and sends an SMS to the authorized phone number.</td></tr>
<tr><td>Applicable Model</td><td>MVT100/MVT340/MVT380/MVT600/T1/MVT800/T322X/T333/T3</td></tr>
<tr><td colspan="2">Example</td></tr>
<tr><td>SMS Sending</td><td>0000,B21,1</td></tr>
<tr><td>SMS Reply</td><td>353358017784062,B21,OK</td></tr>
</table>

3.27 Turning Off the Indicator – B31

<table>
<tr><td>SMS Sending</td><td>0000,B31,A</td></tr>
<tr><td>SMS Reply</td><td>IMEI,B31,OK</td></tr>
<tr><td>Description</td><td>When A is 00, the tracker's indicator is turned on (default). You can query the device's running status according to the indicator status.
When A is 10, the tracker's indicator is turned off.</td></tr>
<tr><td>Applicable Model</td><td>Excluding T322X/T355</td></tr>
<tr><td colspan="2">Example</td></tr>
<tr><td>SMS Sending</td><td>0000,B31,10</td></tr>
<tr><td>SMS Reply</td><td>353358017784062,B31,OK</td></tr>
</table>

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3.28 Setting a Log Interval – B34

SMS Sending	0000,B34,*Log interval*
SMS Reply	IMEI,B34,OK
Description	Set the log interval when the GPS is valid. Log interval = 0: function disabled (default). Log interval = [1…65535]: function enabled. Unit: second.
Applicable Model	Excluding T322X/MVT340/T355
Example	
SMS Sending	0000,B34,60
SMS Reply	353358017784062,B34,OK

3.29 Setting the SMS Time Zone – B35

SMS Sending	0000,B35,*SMS minute*
SMS Reply	B35,OK
Description	The default time zone of the tracker is GMT 0. You can run the B35 command to change the SMS report time zone to the local time zone. The SMS report time zone is different from the GPRS data packet time zone. When **SMS minute** is **0**, the time zone is **GMT 0**. When **SMS minute** is a value ranging from -720 to 780, set time zones.
Applicable Model	All
Example	
SMS Sending	0000,B35,480
SMS Reply	353358017784062,B35,OK

3.30 Setting the GPRS Time Zone – B36

SMS Sending	0000,B36,*GPRS minute*
SMS Reply	IMEI,B36,OK
Description	When **GPRS minute** is **0**, the time zone is **GMT 0** (default). The MS02 can automatically detect the user time zone, so that the GPRS time zone does not need to be changed. Otherwise, inaccurate data occurs. When **GPRS minute** is a value ranging from -720 to 780, set time zones.
Applicable Model	Excluding T355
Example	
SMS Sending	0000,B36,480
SMS Reply	353358017784062,B36,OK

3.31 Checking the Engine First to Determine Tracker Running Status – B60

SMS Sending	0000,B60,X

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SMS Reply	IMEI,B60,OK
Description	X = 0: function disabled (default). X = 1: function enabled. Use ACC detection to determine whether the tracker is moving or stops to prevent static drift. The first positive input of the tracker connects to engine detection by default.
Applicable Model	MVT100/MVT380/MVT600/T1/MVT800/T322X/T333/T3
Example	
SMS Sending	0000,B60,1
SMS Reply	353358017784062,B60,OK

3.32 Setting SMS Event Characters – B91

SMS Sending	0000,B91,*Event SMS code*,*SMS header*
SMS Reply	IMEI,B91,OK
Description	Header: a maximum of 16 bytes For details, see section 1.2 "Event Code and SMS Header."
Applicable Model	Excluding T322X
Example	
SMS Sending	0000,B91,1,SOS
SMS Reply	353358017784062,B91,OK

3.33 Setting Event Authorization – B99

SMS Sending	0000, B99,<SMS>/<0>,<*Phone number location*>/<*Authorized phone number*>,<*Operation code*>, [*Event code 1*]……[*Event code n*] 0000,B99,<CALL>/<1>,<*Phone number location*>/<*Authorized phone number*>,<*Operation code*>, [*Event code 1*]……[*Event code n*] 0000,B99,<GPRS>/<2>,<*Operation code*>, [*Event code 1*]……[*Event code n*] 0000,B99,<CAMERA>/<3>,<*Operation code*>, [*Event code 1*]……[*Event code n*] 0000,B99,<BUZZER>/<4>,<*Operation code*>, [*Event code 1*]……[*Event code n*].
SMS Reply	IMEI,B99,<SMS>/<0>,<*Phone number location*>,<*Authorized phone number*>, [*Event code 1*]……[*Event code n*] IMEI,B99,<CALL>/<1>,<*Phone number location*>,<*Authorized phone number*>, [*Event code 1*]……[*Event code n*] IMEI,B99,<GPRS>/<2>,[*Event code 1*]……[*Event code n*] IMEI,B99,<CAMERA>/<3>,[*Event code 1*]……[*Event code n*] IMEI,B99,<BUZZER>/<4>,[*Event code 1*]……[*Event code n*]
Description	Fields SMS, CALL, CAMERA, GPRS, and BUZZER can be presented by 0–4 in decimal string. Operation codes GET, SET, ADD, and DEL can be presented by 0–3 in decimal string. These characters are not case-sensitive. Note: Ensure that an authorized phone number is set by using the A71 command or the parameter configuration tool before the B99 command is used to set the SMS/CALL event code. The tracker compares the authorized phone number issued by B99 with the

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	authorized phone number (excluding +86 characters) of the tracker. If the phone numbers are the same, the new event code will be stored. If the phone numbers are inconsistent, an error SMS will be sent.
Applicable Model	All
Example	
SMS Sending	0000, B99,gprs,get
SMS Reply	353358017784062, B99,1,17,18

3.34 Output Control – C01

SMS Sending	0000,C01,*Speed*,ABCDE
SMS Reply	IMEI,C01,OK
Description	When the speed is **0**, no speed limit exists. That is, when the tracker receives a command, the output control takes effect immediately. When the speed is a value ranging from 1 to 255 (unit: km/h), set the speed limit for output control. When the driving speed is lower than the speed limit, the output control takes effect. A=0, close output (OUT1) - open drain A=1, open output (OUT1) - connect to GND A=2, remain previous status. B=0, close output (OUT2) - open drain B=1, open output (OUT2) - connect to GND B=2, remain previous status. C=0, close output (OUT3) - open drain C=1, open output (OUT3) - connect to GND C=2, remain previous status. D=0, close output (OUT4) - open drain D=1, open output (OUT4) - connect to GND D=2, remain previous status. E=0, close output (OUT5) - open drain E=1, open output (OUT5) - connect to GND E=2, remain previous status.
Applicable Model	MVT100/MVT340/MVT380/MVT600/T1/MVT800/T333/T3
Example	
SMS Sending	0000,C01,20,12221
SMS Reply	353358017784062,C01,OK

3.35 Setting a GPRS Event Transmission Mode – C03

SMS Sending	0000,C03,X
SMS Reply	IMEI,C03,OK
Description	X = 0: automatic event report (default) X = 1: Before another event can be transmitted, existing event reports need to be confirmed and deleted on the server by the AFF command. Select this mode when GPRS

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	uses UDP.
Applicable Model	Excluding T322X
Example	
SMS Sending	0000,C03,0
SMS Reply	353358017784062,C03,OK

3.36 SMS Display (LCD Display) – C11

SMS Sending	0000,C11,*Text*
SMS Reply	IMEI,C11,OK
Description	**The command is used to show an SMS sent by a mobile phone on the LCD display.** Text: indicates the SMS text. ASCII character string; a maximum of 140 bytes. The MVT600 does not support Unicode.
Applicable Model	MVT600/T1/T333/T3
Example	
SMS Sending	0000,C11,SMS Message
SMS Reply	353358017784062,C11,OK

3.37 Setting a Fuel Theft Alarm (T1/MVT600/MVT800/T333) – C49

SMS Sending	0000,C49,*Time for fuel check*,*Percent of fuel decrease*
SMS Reply	IMEI,C49,OK
Description	Time for fuel check = 0: function disabled. Time for fuel check = [1…255]: function enabled. Decimal; unit: minute; default value: 3. Percent of fuel decrease = 0: function disabled. Percent of fuel decrease = [1…100]: function enabled. Decimal; default value: 2. By default, the percent of fuel decrease is 2% within 3 minutes, a fuel theft alarm will be generated (for example: **C49,3,2**). Note: The percent of fuel decrease must be over two times larger than the percent of fuel sensor accuracy. For example, if the fuel sensor accuracy is 10 mm and its height is 500 mm, the recommended percent of fuel decrease is 4% (10/500 x 2).
Applicable Model	MVT600/T1/T333/MVT800
Example	
SMS Sending	0000,C49,3,2
SMS Reply	353358017784062,C49,OK

3.38 Authorizing an RFID Card (MVT600/T1/T333/T3) – D10

SMS Sending	0000,D10,RFID(1),RFID(2),…,RFID(n)
SMS Reply	IMEI,D10, OK
Description	RFID (n): indicates the authorized RFID card number. The value ranges from 1 to 4294967295. Decimal.

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	A maximum of 50 RFID cards can be authorized at a time.
Applicable Model	MVT600/T1/T333/T3
Example	
SMS Sending	0000,D10,00000001
SMS Reply	353358017784062,D10,OK

3.39 Authorizing RFID Cards in Batches (MVT600/T1/T333/T3) – D11

SMS Sending	0000,D11,*RFID card start number*,n
SMS Reply	IMEI,D11, OK
Description	RFID card start number: The value ranges from 1 to 4294967295. Decimal. n: indicates the number of batch-authorized RFID cards. Decimal. The maximum value is **128**.
Applicable Model	MVT600/T1/T333
Example	
SMS Sending	0000,D11,00000001,128
SMS Reply	353358017784062,D11,OK

3.40 Deleting an Authorized RFID (MVT600/T1/T333/T3) – D14

SMS Sending	D14,RFID(1),RFID(2),…,RFID(n)
SMS Reply	D14, OK
Description	RFID (n): indicates the RFID to be deleted. The value ranges from 1 to 4294967295. Decimal. A maximum of 50 RFID cards can be deleted at a time. One SMS (including protocols) cannot exceed 140 bytes.
Applicable Model	MVT600/T1/T333/T3
Example	
SMS Sending	0000,D14,00000001
SMS Reply	353358017784062,D14,OK

3.41 Deleting Authorized RFIDs in Batches (MVT600/T1/T333/T3) – D15

SMS Sending	0000,D15,*RFID card start number*,n
SMS Reply	IMEI,D15, OK
Description	RFID card start number: ranges from 1 to 4294967295. Decimal. n: indicates the number of RFID cards to be deleted in batches. Decimal. The maximum value is **128**. When the card start number is a value ranging from 1 to 4294967295 and **n** is greater than or equal to 65536, all authorized numbers will be deleted.
Applicable Model	MVT600/T1/T333/T3
Example	

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SMS Sending	0000,D15,00000001,128
SMS Reply	353358017784062,D15,OK

3.42 Reading the Tracker Firmware Version and SN – E91

SMS Sending	0000,E91
SMS Reply	IMEI,E91,*Version*,*SN*
Description	Read the tracker's firmware version and SN.
Applicable Model	All
Example	
SMS Sending	0000,E91
SMS Reply	353358017784062,E91,FWV1.00,12345678

3.43 Restarting the GSM Module – F01

SMS Sending	0000,F01
SMS Reply	IMEI,F01,OK
Description	Restart the GSM module.
Applicable Model	Excluding T322X
Example	
SMS Sending	0000,F01
SMS Reply	353358017784062,F01,OK

3.44 Restarting the GPS Module – F02

SMS Sending	0000,F02
SMS Reply	IMEI,F02,OK
Description	Restart the GPS module.
Applicable Model	Excluding T322X
Example	
SMS Sending	0000,F02
SMS Reply	353358017784062,F02,OK

3.45 Setting the Mileage and Run Time – F08

SMS Sending	0000,F08,*Run time*,*Mileage*
SMS Reply	IMEI,F08,OK
Description	Run time: ● Value range: [0…4294967295] ● Decimal ● Unit: second

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	If you do not want to set the parameter, leave it blank. Mileage: ● Value range: [0…4294967295] ● Decimal ● Unit: meter If you do not want to set the parameter, leave it blank.
Applicable Model	All
Example	
SMS Sending	0000,F08,0,4825000
SMS Reply	353358017784062,F08,OK *Note: In the command above, the run time is 0, and the mileage is 4825 km.*

3.46 Deleting SMS/GPRS Cache Data – F09

SMS Sending	0000,F09,*Number*
SMS Reply	IMEI,F09,OK
Description	If the number is **1**, SMS cache data to be sent is deleted. If the number is **2**, GPRS cache data to be sent is deleted. If the number is **3**, SMS and GPRS cache data to be sent is deleted.
Applicable Model	All
Example	
SMS Sending	0000,F09,1
SMS Reply	353358017784062,F09,OK

3.47 Restoring Initial Settings – F11

SMS Sending	0000,F11
SMS Reply	IMEI,F11,OK
Description	Restore initial settings except the SMS password.
Applicable Model	All
Example	
SMS Sending	0000,F11
SMS Reply	353358017784062,F11,OK

3.48 Changing the Tracker Password – F20

SMS Sending	0000,F20,*New password*
SMS Reply	IMEI,F20,OK
Description	Change the SMS password. Note: The password has four digits in decimal string.
Applicable Model	All
Example	

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SMS Sending	0000,F20,1234
SMS Reply	353358017784062,F20,OK

3.49 Initializing the Tracker Password – FAB

SMS Sending	8888,FAB
SMS Reply	IMEI,FAB,OK
Description	The command is to restore the tracker's password to its original manufacturer settings. The command takes effect only when you use the authorized phone number to send the command.
Applicable Model	All
Example	
SMS Sending	8888,FAB
SMS Reply	353358017784062,FAB,OK

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