

Mictrack Communication Protocol

(For MP90/MP90-NB)

1. The Protocol in SMS Mode

1.1 SMS Format:

ID: IMEI Number

Date:hh:mm:ss dd/mm/yy

Fix:Device Position Status State:Event Status

Google map link

For example:

ID:865662000409210

Date:05:36:59 15/08/2015

Fix:A State:SOS

[http://maps.google.com/maps?q="+22.63146%2c+114.03701](http://maps.google.com/maps?q=)

1.2 The parameter description

Parameter	Example	Description
ID	865662000409210	IMEI (15 digits)
Date	05:36:59 15/08/2015	hh:mm:ss dd/mm/yy
Fix	A/V	Position Status,A=valid,V=invalid
State	SOS	Event state(more detail please check 1.3)
Google Map link	<a +22.63146%2c+114.03701"="" href="http://maps.google.com/maps?q=">http://maps.google.com/maps?q="+22.63146%2c+114.03701	

1.3 State in SMS Mode:

Status	Description
SMS	666 command (MP90 only)
CALL	Phone positioning (MP90 only)
OS	Exit Geo-fence alarm
RS	Enter Geo-fence alarm
DEF	Un-plug alarm
TOWED	Towed alarm
HT	High Temperature alert
BLP	Backup battery low voltage
CLP	Car Battery low voltage

2. The Protocol in LTE/HSPA/GPRS Mode

2.1 GPS Data Format:

#<IMEI>#<A>##<C>#<D>[CR][LF]

#<Base ID><Message ID>,<UTC time>,<Status>,<Latitude>,<N/S Indicator>,<Longitude>,<E/W Indicator>,<Speed Over Ground>,<Course Over Ground>,<Date>,,,<Checksum>,[CR][LF]##

For example:

#863835023427631#MT600#0000#AUTO#1

#a52d15e5803\$GPRMC,094632.00,A,2237.7776,N,11402.1399,E,0.07,309.62,030116,,,A*49##

2.2 The parameter description

Parameter	Example	Description
IMEI	863835023427631	IMEI (15 digits)
A	MP90	GPRS user name
B	0000	GPRS user password
C	AUTO	Upload Status (more detail please check 2.3).
D	1	Upload data quantity
<CR><LF>		End of message termination
Base ID	262c0f48(2G SIM Card) a52d15e5803(3G SIM Card)	LAC+CI (Hex)
Message ID	\$GPRMC	RMC Protocol header
UTC time	094632.00	hhmmss.ss
Status	A	A=valid,V=invalid
Latitude	2237.7776	ddmm.mmmm
N/S Indicator	N	N=north or S=south
Longitude	11402.1399	Dddmm.mmmm
E/W Indicator	E	E=east or W=west
Speed Over Ground	0.07	knots
Course Over Ground	309.62	degrees
Date	030116	DDMMYY
Checksum	A*49	
<CR><LF>		End of message termination

2.3 Status in HSPA/GPRS Mode:

Status	Description
AUTO	Normal mode
AUTOLOW	Power saving mode and vehicle stop
TOWED	Power saving mode and vehicle Move
CALL	CALL alert (MP90 only)
DEF	Un-Plug alert
HT	High Temperature alert
BLP	Backup battery low voltage
CLP	Car Battery low voltage
OS	Out of the Geo-fence alarm
RS	Enter the Geo-fence alarm
OVERSPEED	Overs-peed alarm
SAFESPEED	Safe-speed alarm

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Any questions please do not hesitate to contact us:

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