

GPS/GNSS 4G LTE Tracker



User guide

INTRODUCTION

Thank you for purchasing this modern and technologically advanced satellite tracker with 4G connectivity, which will guarantee safety and security for your vehicle whatever it may be.

In addition to real-time monitoring of the movements of your vehicle or fleet of vehicles, in the event of theft you will be alerted by SMS, app notification and voice call.

By downloading the free BOMASAT3 APP available on the iOS and Android stores, or by connecting to the WEB portal http://gps.track.boma-tech.com/, you can start tracking the movements of your vehicle(s) in real time and be alerted in the event of imprudent use of the vehicle.









BOMASAT3 requires a SIM card (not supplied) in micro format and without pin code.

The SIM card of the chosen 4G mobile operator must be capable of making calls, sending SMS and surfing the Internet (estimated data volume per month < 50 mB).

The SIM must be placed inside the device, so will then have its own phone number.

We recommend SIM cards from the main telephone operators for more complete territorial coverage and to activate the roaming service in case of use abroad.

Configuration of the BOMASAT3 is done directly from the App or by sending SMS from your mobile phone to the locator's phone number.



iOS

ACCOUNT CREATION PROCEDURE

- 1 Launch the APP \rightarrow select the language \rightarrow click «Sign Up».
- 2 Fill in the email field → click on the blue arrow to receive the «verification code». On receipt of the verification code, fill in all the fields with the required data, click on «accept» → tick the privacy box
- 3 Then log in to the account with the Usename (e-mail) and password you have just created.







PROCEDURE FOR ADDING UNITS

- 1 Launch the APP -> from the «Home» screen click on the «+» in the top right-hand corner
- 2 Enter the IMEI code of the device → press «add device». NOTE: the IMEI code can be found both on the sales package and on the locator
- 3 Fill in the vehicle master data \rightarrow click on «save».
- 4- The vehicle appears on the map.



ATTENTION:

In most cases the BOMASAT3 recognises the SIM provider and automatically acquires the network connection parameters.

If this is not the case and the vehicle is not correctly located on the map, the APN must be set by sending an SMS to the tracker SIM with the following command:

APN,apnname#

replace «apnname» with the parameter indicated by the SIM provider.

To confirm the setting, the system responds with an SMS as shown in the image opposite.

At this point the device resets and within a few minutes the vehicle will be correctly displayed on the map



ATTENTION: To define the mobile phone numbers on which to receive SMS alarms, see SOS Alarm menu page 15

To activate receipt of notifications in APP, access the Profile menu --> setting alerts (page 12)



HOME MENU



The HOME screen is the first screen that appears when opening the APP and shows the real-time location of all vehicles.

Page refresh

Every 10 seconds the position of the vehicles is updated on the map.



LIST MENU



This menu shown all vehicles and vehicles groups.

In addition to the vehicle name and IMEI of the device, a small box on the right shows the latest status of the vehicle:

- Speed or stopped time.

- Vehicle status: moving or stopped .



Detail menu

16:43 4	.iti 4G 💷
< Dettagli	apparato
(w) Nome apparato	Fiat Panda 🗦
🐧 Tipo dispositivo	LS5024
III IMEI	86
(L) Scadenza	2034-02-14 01:59:59
I SIM	+393
🔀 Icona del dispositivo	
 Stato 	Fermo
📩 Chiave	OFF
Ultima posizione rileva	ta 2024-09-23 14:38:32
🔣 Ultimo aggiornamento	2024-09-23 16:42:18
🕐 Velocità	0km/h
Longitudine	9.442587
🖨 Latitudine	45.633137
Via Rio Va Indirizzo della Bri	llone, Mezzago, Monza e anza, Lombardia, 20883, Italia
P, Driver Information	
Vehicle Information	>

Tracking menu



Vehicle control panel menu



PLAYBACK MENU (historical trips)



This menu allows to consult and reproduce the trips made by the vehicle. The system stores the history up to 6 months.



By clicking on the icon **b** you can access the list of trips made.

The start and end of the trip are indicated by the status of the key (inserted/removed). By clicking on the individual trip, it can be displayed on the map.



ALARMS MENU



This menu allows to view received alarms (only «in APP» notifications, no SMS). The factory-fitted BOMASAT3 sends «in APP» and SMS notifications in the following situations:

- Burglar alarm (from an external alarm).
- Vibration alarm (movement)
- Power disconnection alarm.
- Low supply voltage alarm.

ATTENTION: To activate reception of notifications «in APP» and define the mobile phone numbers on which to receive alarms, please refer to pages 12 and 15.

Example «in app» notification

SMS notification example



Attention please! Vibration Alarm! <06-07 09:34> SMS notifications are available in the message menu of the phone

Using the «filter» function, it is possible to select the notifications to be displayed, for example:

- SOS alarm (external burglar alarm).
- Vibration alarm (movement)
- Power supply disconnected / Low voltage alarm.
- Alarm Geo-fence input/output.
- Overspeed alarm.

After selecting them, click OK.

Clicking on the alarm, is shows the place where it occurred on the map

Alarm localisation

12:17 -	.11 4G 73	12:15 🛪	•1 4G 74	09:16 🛪	.1 4G 翻	Ì	
< Dettagli allarmi		Q inserire le ultime 5 cifre IMEI apparato	· 💿 🗟 🏛	Annulla Filtro			
and the second		Esci dal geo-recinto(Laserline)	1:57:44 2024-0 - -24	Avviso veicolo parcheggiato da tem	ро	Auria umidit	
Verderio	()	Furgone	862476052599763	Allarme disalimentazione	۲	Entrata polla zona	0
Verderio		A Entri nel geo-recinto(Laserline)	08:27:37 2024-09-24	vviso spegimento DVR		Aurice di chiusure perte	
Sofia		Furgone	862476052599767	Allarme effrazione (SOS)	0	Avviso di critosora porta	
	Brughee	Allarme bassa carica esterna	15:13:15 2024-09-14		-	Uscita dalla zona	0
Fiat Panda 19:00-1	Cornate	Fiat Panda	862476052599858	avviso cambio SIM			_
FondoBr Allarme SOS	d'Adda Billio BBILLI	Allarme SOS	12:07:06 2024-09-03	Avviso aree sensibili		Allarme alimentazione bassa	0
curzio S 862476052599858 2024-09-03		Fiat Panda	862476052599858	Avviso assenza rete per spegnimen localizzatore	to		
Castello di Sulbiate Pizzeria Spaccani	Ristorante 🔨 apoli 187	Allarme SOS	11:41:49 2024-09-03	Allarme Movimento	0	·	_
Mezzago	Colnage	Fiat Panda	862476052599858	Avviso vocale		Allarme superamento Velocit	0
Comme	Centro (erciale Globo			Avviso anomalia		Allarme superamento Velocit	٢
Bellusco	Busnago			Avviso affaticamento alla guida			
				Allarme di svolta brusca			
N Via Rio Vallone, Mezzago, Monza e del Lombardia, 20883, Italiaa Concide	cello Ila Brianza,	Nome Veiceii Alarmi	Profile	Selezionare tutti S	ii(8)		
Pag.9							

Displaying received alarms

PROFILE MENU



11 4G 99

The following functions are available in this menu:

- Geo-fence: see page 11.
- Feedback: fault report form.
- Command Logs: list of all commands sent to the device (not via SMS)
- Alert settings: see page12.
- Settings: allows language and unit selection.

Clicking on the account name will take you to the account management options.



GEO-FENCE MANAGEMENT

This menu allows you to create a geo-fence or groups of geo-fences and receive notifications when entering or leaving the defined area (geo-fence).

Click on add geo-fence and:

- Move the map to locate the area
- Define the radius of the area (minimum 200 metres).
- Naming the area.
- Add device: select one or more vehicles for which you wish to receive notifications of entry and exit from the geo-fence.
- Alert setting: choose which notification to receive: entry and/or exit from target
- Group: indicate in which group to place the target (optional).
- Over speed alert: allows an alarm to be set in the event of passing through the target at a speed above the defined threshold.



ALERTS	Cesa Lista Allarma			
From this menù, you can select the alarm notification	s for which you wish to r	eceive «in app»		
ATTENTION : The «notifications» option activates and deactivates all notifications. Selecting each individual option will activate a specific alarm notification.	09:58 ✓ cril 40 820 ✓ Internet und self Alexakeit △ Attiva notifiche Ø On the feasible action motion work her Batteria interna scarica ○ Modalita aereo attivata (dopo stacco alimen ne)	09:40 4 rel 40 (32) C Impostazioni di Avvisi Avviso veicolo parcheggiato da tempo Avviso spegimanto localizzatore Alarme dialimentazione		
SOS alert: activates «in APP» notification following a burglary (see page 15).		Avviso spegimento DVR Allarme effrazione (SOS)		
Vibration alert : activates «in APP» notification for movement/vibration alarm (page 17).		Avviso cantuo sin Avviso aree sensibili Avviso assenza rete per spegnimento localiz Altarme Movimento		
Power cut-off : activates «in APP» notific disconnection alarm. (page 16).	Avviso vocale Avviso anomalia Avviso anomalia Avviso affaticamento alla guida			
Low external power alert : activates the «in APP» notification following a low supply voltage alarm. (page 16).		Avviso cambio corsia Avviso stabilit Avviso inclinazione veicolo		
Geo-fence alert + enter geo-fence + exit geo-fence: receiving notifications for entering/exiting an area (page 11).				
over speed alert (terminal) : Receive notification when exceeding set speed (page 18)		Avviso porta aperta 💿		
	[Allarme superamento Velocit 💿 🚺		
Alarms that are not enabled are silenced, (page 9).	but can still be viewed in	n the «alarm» menu		
ATTENTION : Even if «in APP'»notification be notified by SMS.	ns are deactivated, alarn	ns will continue to		
To completely deactivate the reception of taken from the specific menu for each ala	alarms (in APP + SMS), rm. (page 15 and followi	action must be ng).		

CONTROL PANEL

Selecting a vehicle from the map, or from the list menu, takes you to the control panel. Expanding the control panel allows access, in addition to the menus mentioned so far, to the following functions: **Commands, Console, and more**



 Image: Storico Storico Aranti

 Image: Storico Aranti

 Image: Storico Aranti

 Image: Storico Aranti

Command: alarm configuration menu (page 15 and following.).

Console: simplified management panel (page 20).

More: to access further functions (page 14)

- Navigation
- Share
- Unbound



CONTROL PANEL

Share : generates a time link to share the location of the vehicle with other people.



Define:

- Duration of the link in hours.

- Whether to share the vehicle name/IMEI

Accept the conditions and click «share location».

Select how to share the link: e-mail, SMS, whatsapp, etc...

The link allows the recipient to view the real-time position of the vehicle until the link expires.

Navigation: start navigation with Google maps to reach the vehicle.





Unbound: disconnect the locator from the account.

ATTENTION: Once disconnected, it will no longer be possible to control the locator.

To manage it again, follow the «adding unit» procedure (page 5)

SOS ALARM / BURGLARY ALARM FROM EXTERNAL DEVICE

The BOMASAT3 allows the burglar alarm (from connected antitheft) to be sent via SMS to up to 3 set mobile phone numbers.

From the control panel, click on COMMANDS and access the **«SOS alarm settings»** menu



Insert in the fields number 1 / 2 / 3 the mobile phone numbers (without international prefix) to which you wish to send the alarm SMS.

NOTE: By NOT filling in the 3 fields, the alarm will only be signalled with an «in APP» notification (see page 12).

Press «send», after a few moments a notification of successful programming will appear.

From now, every time the burglar alarm of the connected burglar alarm is triggered, you will receive notification in APP and/or SMS and/or CALL that you must answer and hang up

NOTE: The call is ONLY available if the SIM card is enabled for VOICE traffic.



in APP notification



ATTENTION:

The SOS alarm is triggered ONLY IF the burglary condition persists for at least 4 seconds.



SOS ALARM DEACTIVATION

To **deactivate** the alarm: select «Delete SOS numbers» option and deactivate the «SOS alarm» option from the «setting alerts in APP» menu (page 12).

POWER CUT-OFF ALARM

From the control panel, click on COMMANDS and access the menu: **«Power cut-off alarm»**

Define alarm sending mode:

- Platform: notification in APP
- Platform+SMS:notification in APP + SMS (**by default**)
- Platform+Call: notification in APP + Call
- Platform+SMS+Call: ... notification in APP + SMS + Call

NOTE: SMS are sent to the same numbers defined for SOS

Press «send», after a few moments a notification of successful programming will appear.

From now on, whenever the power supply is disconnected for at least 10 seconds, you will receive notification in APP and/or SMS and/or CALL that you must answer and hang up **NOTE:** *The call is ONLY available if the SIM card is enabled for VOICE traffic.*

To **DEACTIVATE** the alarm, select the **«turn off power Cut-off alarm»** option and press send: a confirmation notification will appear after a few moments.

LOW POWER SUPPLY ALARM

By default, the system provides an alarm if the vehicle battery drops below 12 volts.

To customise the alarm threshold, access the **«user-defined**» menu and issue the following command:

EXBATALM,ON,1,nnn,yyy,30#

Replace nnn with the threshold below which you wish to receive the alarm

Replace yyy with the alarm «reset» value.

By default: EXBATALM,ON,1,120,130,30#

The low power supply alarm is triggered if the supply voltage drops below 12 volts (120). To avoid continuous signalling due to voltage fluctuations, a further alarm is only generated if the voltage first exceeds 13 volts (130) and then falls below 12 again.

A voltage above 13 volts indicates that the vehicle is running.

To DEACTIVATE the alarm send the command EXBATALM, OFF, 1, 120, 130, 30#

VIBRATION ALARM

By default, the motion alarm is only triggered if the vehicle moves with the ignition off. **The control is automatically activated 60 sec after the ignition is switched off.**

From the control panel, click on COMMANDS and access the menu: **«Vibration alarm»**

Define alarm sending mode:

- GPRS: notification in APP
- GPRS +SMS: notification in APP + SMS (by default)
- SMS+GPRS+Call: SMS + notification in APP + Call
- GPRS+Call: notification in APP + Call

NOTE: SMS are sent to the same numbers defined for SOS

By default, the parameters are defined as shown in the figure opposite. (3 - 3 - 1 - 1)

To ensure proper functioning of the device, do not change these values.

If necessary, **ONLY change the vibration detection sensitivity** as described in the following section.

Press «send», after a few moments a notification of successful programming will appear.

To **DEACTIVATE** the alarm select the "**alarm switch off**" option and press send, after a few moments a confirmation notification will appear

In the case of transporting the car by ship or tow truck, disable the motion alarm to avoid false alarms due to the continuous oscillations.

VIBRATION SENSITIVITY

In order to better adapt to the characteristics of different vehicles, the sensitivity of the motion sensor can be defined.

From the control panel, click on COMMANDS and access the menu: **«Vibration Sensitivity**».

Five levels of motion sensitivity are available:

Level 1 : very sensitive Level 5 : not very sensitive

NOTE: By default, sensitivity is set to Level 2

Press «send», after a few moments a notification of successful programming will appear.

From now on, whenever the vehicle is moved with the ignition off, you will receive notification in APP and/or SMS and/or CALL that you must answer and hang up

OVER SPEED ALARM

Allows an alarm to be set when a certain speed threshold is exceeded.

From the control panel, click on COMMANDS and access the menu: **«Over speed Alarm»**

Define alarm sending mode:

- Platform: notification in APP
- Platform+SMS: ... notification in APP + SMS

NOTE: SMS are sent to the same numbers defined for SOS

Define:

- the speed threshold above which to receive notification e.g.: 50 Km/h.
- threshold exceeded duration (in seconds): time of speed over the threshold before sending the alarm, e.g. 5sec.

Press «send», after a few moments a notification of successful programming will appear.

From now on, whenever you exceed the set speed for at least 5sec. (e.g. 50km/h) you will receive notifications in APP and/or SMS.

To **DEACTIVATE** the alarm, select the «turn off over speed alarm» option and press send, a confirmation notification will appear after a few moments.

STARTER LOCK RELAY ACTIVATION - (ANTI CAR JACKING)

Upon installation of a relay, it is possible to inhibit vehicle starting. Contact the workshop that installed the tracker for more details.

IMEI: 86 67

Consenso Blocco O Elimina n

iumero autorizzato al b vviamento via SMS

Cut off the fuel supply:

Restore fuel supply: Success!

Success!

-1 4G FZ

RELAY,1#

RELAY.O#

13:37 -

a.

09:47

Comandi Furgone deactivation re RELAY ACTIV For security real

RELAY ACTIVATION VIA APP

From the control panel, click on COMMANDS and access the menu: **«Remote control»** AND select:

«cut-off fuel» to activate the relay «restore fuel» to deactivate the relay.

Press «send», after a few moments a notification of successful programming will appear.

NOTE: For security reasons, the APP access password is required to activate and deactivate the relay.

At least 60 seconds must elapse between the activation and deactivation request.

RELAY ACTIVATION VIA SMS

For security reasons, to activate and deactivate the relay via SMS, it is necessary to define the authorised mobile phone number for the command.

From the control panel, click on COMMANDS and access the menu: «**centre number**» and enter the mobile phone number authorised to activate the relay.

Press «send», after a few moments a notification of successful programming will appear.

Then, from your authorised mobile phone, send the following SMS (in capital letters and without spaces)

- RELAY,1# : to activate the relay
- RELAY,0# : to deactivate the relay

Upon confirmation of the relay's activation/deactivation, the system responds with an SMS.

Once the command is sent, (via APP or SMS) the relay will be activated only if the speed is less than 20 km/h preventing the vehicle from starting.

If the vehicle is already switched on, the next start attempt will be prevented.

CONSOLE MENU

The console menu offers simplified graphics for vehicle management and gathers all the functions mentioned so far in one screen.

From the control panel, click on COMMANDS and access the menu: «Console».

Note the quick commands for activating and deactivating the external relay and for manually activating and deactivating the motion alarm(page 21).

VIBRATION ALARM (manual mode)

The vibration alarm is only triggered if the vehicle moves with the ignition off. By default is automatically activated 60 sec after the ignition is switched off. If necessary, the motion alarm can be switched on and off manually and we can decide to receive movement notifications only at our discretion.

NOTE: In manual mode, the motion alarm is triggered whether the ignition is on or off.

From the control panel, click on COMMANDS and go to the **«user-defined»** menu:

DEFMODE,1#

Press «send», after a few moments a notification of successful programming will appear.

To activate the motion alarm, go to the **«Console**» screen and click on the ARM and DISARM commands.

After a few moments, a notification of successful programming will appear and the padlock in the top right-hand corner will change state: closed = alarm active / open = alarm inactive.

Vibration alarm reset in automatic mode

To reset automatic motion alarm control, from the control panel click on COMMANDS, go to the **«user-defined»** menu and write the following message:

DEFMODE,0#

Press «send», after a few moments a notification of successful programming will appear.

LIST OF AVAILABLE COMMANDS AND DIAGNOSTICS

Commands must be typed in capital letters and without spaces and can be sent in the following ways

- via SMS from a mobile phone.

- from the APP via the «Commands» menu --> «user-defined».

APN# Diagnosis command to which the BOMASAT3 answers the configured APN

APN,apnname# or APN,apnname,user,pwd#

APN programming command. Replace «apnname» or «apnname, user, pwd» with the parameters provided by the SIM provider.

STATUS# Diagnosis command, the system responds with the internal battery voltage level, network connection status, LTE and GPS signal quality, number of satellites detected and key status.

Battery:3.84V,NORMAL; GPRS:Link Up; LTE Signal Level:Strong; GPS:Successful positioning; SVS Used in fix:18(20); GPS Signal Level:11,35,35,26,25,30,35,28,29,27,30,29,33,40,33,30,29,26; ACC:ON; Defense:OFF;

URL# Position request command, the system responds with the google maps link showing the last detected position of the vehicle.

SOS# Diagnosis command, the system responds with mobile phone numbers enabled to receive SMS alarms.

SOS,A,number,number,number# Programming command to add up to 3 mobile phone numbers enabled to receive SMS alarms. Replace «number» with the desired mobile phone number

SOS,D,number# Programming command to delete a mobile phone number on which you no longer wish to send SMS alarms. Replace «number» with the mobile phone number to be deleted.

DEFMODE,1# Command to activate «Manual Motion Alarm» mode **DEFMODE,0#** Command to activate «automatic motion alarm» mode

After activating the 'Manual vibration alarm' mode:

- 000# Command to activate motion alarm
- 111# Command to deactivate the motion alarm

Commands can ONLY be sent from an authorised mobile phone (page 19)

RELAY,1#: to activate the external relay

RELAY,0#: to deactivate the external relay

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT DIRECTIVE (RAEE)

ONLY CONTAINERS APPROPRIATE In the European Union, this label indicates that the product must not be disposed of together with household waste, but must be deposited in a facility capable of carrying out recovery, disposal and recycling operations (regulations 2002/95 / EC, 2002/96 / EC and 2003/108 / EC). For information on recycling procedures in your country, visit www.eur-lex.europea.eu

NOTE

The manufacturer declines all responsibility for breakdowns or malfunctions of the alarm due to bad installation or to exceeding the indicated characteristics. The alarm has only a dissuasive function towards possible thefts.

THE MANUFACTURING COMPANY RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME THAT IS NECESSARY WITHOUT THE OBLIGATION TO COMMUNICATE.

SPECIFICATION

Power supply	
Network	
TTFF cold start (open sky)	< 32sec
TTFF hot start (open sky)	
Consumo in stand-by	
Operating temperature	
Internal battery	60mAh 3.7V LiPolymer
Dimension	
Protection level	IP65

BOMA Tech

Boma Tech via Alessandro Volta, 3, 56028 San Miniato (PI) Italy tel. +39 0571418881 e-mail info@boma-tech.com web: www.boma-tech.com

> ISLS5024BT-EN REV.00 20/02/2025