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Necessary Tools, Devices and Materials

1. Tracking device for a satellite monitoring Galileosky (hereinafter-tracking device) of one of the modifications, except for version 1.8.5 Lite. Follow the link to study a detailed manual on activation and setting of the tracking device: https://galileosky.com/podderzhka/dokumentacziya.html

2. A computer with Windows-based operating system and an installed configuration program for Galileosky – «Configurator». You can download it here https://galileosky.com/podderzhka/programmyi.html
Galileosky tracking devices allow configuring sending alarms about emergencies, including:

1. controlling speed of the tracking device and signaling about overspeed by sending alarm messages to the monitoring server;
2. tracking device movement controlling and signaling about leaving the pre-set allowable radius of displacement by sending alarm messages to the monitoring server.

Let us consider setting the tracking device to control vehicle speed and exit from the pre-set area and sending alarm messages about the events above mentioned.
**Speeding Control**

Galileosky tracking devices, except 1.8.5 Lite version, have a function to determine the current speed and setting of device reaction to the excess of pre-set allowable speed.

To set up the tracking device to control speeding you should:

1. Connect the tracking device to PC with installed service program “Configurator”;
2. Run service program “Configurator”;
3. Click tab “Setting” -> “Signaling settings”;
4. For the parameter “Regime”, “Navigation data”, select necessary type of device reaction in accordance with the task – “alarm by speeding” or “alarm by speeding or radius exceeding” (Picture 1);
5. For parameter “Maximum speed” set speed rate in km/h. If the current maximum speed is excessed, alarm mode will be activated (Picture 2);
6. Select type of signal by ticking “Notification type” – “SMS” and (or) “Ring” (Pic. 2);
7. Set up to 4 telephone numbers for notifications in field “Notification phones” (Pic. 3);
8. If necessary, set maximum time of alarm in the field “Max time in alarm”. After the set period of time the tracking device will automatically switch from alarm mode into the signaling mode (Picture 4);

9. Click tab “Setting” -> “Protocol” and tick “Speed” and “Status of device”, if necessary to transmit current speed rate and alarm characteristic (Picture 5);

10. Apply settings by clicking “Apply” button;
11. Switch on signaling mode to enable the mode. For this, run command “S” in any available way – from the Configurator service program, from the monitoring software
Signaling, Speeding and (or) Exceeding Set Radius (version 5 dated April 11, 2018)

or in an SMS-message. Picture 6 shows an example of running the command from the Configurator service program.

Pic. 6
Switching on signaling mode
Exceeding Radius Control

To set-up tracking device for exceeding radius control you should:

1. In “Configurator” go to tab “Settings” - “Signaling settings”;
2. In field “Navigation data” for the parameter “Regime” select necessary type of device reaction in accordance with the task – “alarm by radius exceeding” or “alarm by speeding or radius exceeding” (Picture 7);
3. Set distance in meters in field “Maximum radius”. If the set radius is exceeded, the alarm mode will be activated (Picture 7);
4. Set maximum time in seconds in field “maximum location time”. If this parameter is exceeded, the tracking device should activate alarm mode (Picture 7);
5. Select notification type by clicking “Notification type” – “SMS” and (or) “Ring” (Picture 2);
6. If necessary, set maximum time of alarm in field “Max time in alarm”. After this period of the tracking device will automatically switch from alarm mode into signaling mode (Picture 4);
7. Click tab “Setting” - “Protocol” and tick “Speed” and “Status of device”, if it is necessary to transmit current speed rate and alarm characteristic (Picture 5);
8. Apply setting by clicking “Apply” button;
9. Switch on signaling mode to start set mode’s work. For this, run command “S” in any available way – from the Configurator service program, from the monitoring software or in an SMS-message. Picture 6 shows an example of running the command from the Configurator service program.

When command “S” is executed, signaling mode will be switched on and tracking device will remember the point with current coordinates.

If distance of the point exceeds data from point 3 in time specified in point 4, alarm mode will be activated on the tracking device.

When alarm starts, corresponding bit will be set in the status of device and alarm message will be sent to monitoring server.

In Picture 8 you can see alarm messages of software “Wialon Hosting”, they are highlighted in red.
Setting up the tracking device for speeding control and (or) set radius control is completed, the tracking device is ready for use.

RSA “Galileosky”, LLC produces satellite monitoring equipment for GPS and GLONASS real time vehicles monitoring. The tracking devices determine the mobile object location recording the time and route as points with geographical coordinates and send the data to the server to be further processed and sent to the traffic controller panel.

In addition, a number of other vehicle parameters are recorded: the state of analog and discrete inputs of the tracking device and the state of digital interfaces.

The tracking devices can be used in any vehicle.