Service. Remote configuration of Galileosky tracking devices

User Manual

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Contents

Tools, Devices, Materials ................................................................. 3
General Information ........................................................................ 4
Remote configuring and troubleshooting via Configurator .................. 5
  Registration for remote configuration via the Configurator .............. 5
  Enabling remote configuration of the tracking device .................... 6
  Remote configuration by means of commands set .......................... 6
  Remote configuration by means of separate commands .................. 11
  Remote configuration of group of tracking devices ....................... 12
  Remote troubleshooting of the tracking device ............................. 14
Remote configuration by means of SMS commands ........................ 16
Tools, Devices, Materials

For remote configuration you will need:

1. Galileosky satellite monitoring tracking device (hereinafter – tracking device) of one of modifications. For detailed instructions on tracking device connecting and setting click the link: https://galileosky.com/podderzhka/dokumentacziya.html

2. Windows-based computer with the installed program of configuration of Galileosky tracking devices – "Configurator". Its version should be not less than 4.1.0. You can download it here https://galileosky.com/podderzhka/programmyi.html

3. Cell phone
General Information

This functionality allows you to avoid trips to the monitoring object for setting the tracking device. Remote configuration of the tracking device is possible in three different ways:

1. Through our own software of Galileosky tracking devices configuration – “Configurator” (hereinafter - Configurator). The service works on tracking devices with firmware higher than 179 (for Galileosky 7 and Base Block trackers service works on any firmware);
2. By sending SMS commands to the tracking device by means of cell phone or GSM modem;
3. By sending commands to the tracking device via the monitoring software (hereinafter – monitoring software).
Remote configuring and troubleshooting via Configurator

When remote configuration via Configurator is enabled, the tracking device starts to support two parallel connections:

- Monitoring server connection;
- Galileosky remote configuration server connection.

Registration for remote configuration via the Configurator

To access the remote configuration through the Configurator the user has to register to get a user account and password. You can send the application for registration of the user from the menu of the Configurator in the following order.

1. Start the Configurator and go to the “Device” tab.
2. Click “Select device” button -> “Remote device” -> “Register new user” (Pic. 1).
3. Enter your login details and send to the e-mail address: support@7gis.ru using one of the suggested ways (Pic. 2).
Enabling remote configuration of the tracking device

To access the remote configuration of the tracking device via the Configurator you must enable this function in the tracking device using one of the following ways:

1. Start the Configurator; go to the “Settings” tab -> “Security” and tick the “Enable remote configuration” field (Pic. 3).
2. Send RemoteConfig 1 command by means of SMS or from the monitoring software as described below.

Remote configuration by means of commands set

After you have received the password and account, you can start the remote configuration via the Configurator. Remote configuring by means of commands set via the Configurator is performed in the following order:
1. Start the Configurator and go to the “Device” tab.
2. Click “Select device” button -> “Remote device”, enter your Login and Password, received at registration, click “Enter” (Pic. 4).

3. Register the tracking device by entering your login and password (Pic. 5). IMEI of the tracking device is used as the login and password by default.

**ATTENTION!** To avoid unauthorized access to the settings of the tracking device it is recommended to change the password. This can be done at one of the steps of registration or via device control menu; access to this menu you can get by right-clicking on the device.

4. If necessary, you may group the registered tracking devices.
5. You can register more than one device at a time. For that follow these steps:
   - Create a *txt file and put there all the IMEI numbers of the trackers that need to be registered. The example is provided in picture 6;
Service. Remote configuration of Galileosky tracking devices
(version 4 dated from May 22, 2018)

- Click the “Register device” and hold it till another option “Register devices...” appears (Pic. 7).

- Click “Select file” button and choose the file you created earlier. The list of IMEIs will appear in the window (Pic. 8);

- Click “Register devices”. Devices with the specified IMEIs will be registered (Pic. 9);
6. It is possible to add multiple devices in one group at a time in a similar way. For that, you need to create a group of devices, highlight it and download the file with devices’ IMEIs in the same way as it was described earlier.

**ATTENTION!** If a device has a password for registration in remote configuration different from IMEI, this device cannot be registered from a *.txt* file.

7. Please note that the Configurator displays a sign of the presence and (or) the lack of communication with the tracking device. (Pic. 10) If there is no communication with the tracking device, you will not be able to connect to it via the Configurator to view its current state and to troubleshoot at this moment; but there is an opportunity to send set of commands for their later execution:

- Select the tracking device from list of devices;
- Go to the “Settings” tab, load a previously saved configuration file of your tracking device, make adjustments to the settings and click "Apply" button (Pic. 10);
- After clicking the “Apply” button a set of commands will be sent to the tracking device for configuration. The commands will be executed when the tracking device will be online.
8. Select a tracking device, which is online and wait until the tracking device loads its current state to the Device tab (Pic. 12). Please note that the settings of the tracking device will match “default” settings; to download the current settings of the tracking device, go to the next step.

9. Go to the “Settings” tab and click “Load from device” button; then wait for the end of loading (Pic. 13).
ATTENTION! DO NOT click the "Apply" button until you download the current tracking device settings. Otherwise, you can reset the configuration of the tracking device to the default settings.

10. Having loaded settings from the tracking device, make adjustments in the current configuration, and click “Apply” button.

After clicking the "Apply" button the list of commands for configuration of the parameters that have been changed will be sent to the tracking device. Depending on the quality of the communication channel application of settings on the tracking device may last from several minutes to several hours. To reduce the time of application of settings it is recommended to send separate commands to the tracking device. The order of sending of separate commands from the Configurator is described in the next section.

Remote configuration by means of separate commands

1. Start the Configurator and download the settings of the tracking device following the procedure described in the previous section.
2. Go to the “Commands” tab and enter a command to configure the tracking device parameter in the top window. The final list of commands with parameters for their running is presented in the Tracking devices User’s Manual which you can download here https://galileosky.com/podderzhka/dokumentacziya.html.
3. Click “Run single command” button and check the command execution in the “Responses” window (Pic. 14).
Service. Remote configuration of Galileosky tracking devices
(version 4 dated from May 22, 2018)

Duration of execution of separate commands usually lasts a few seconds.

**Remote configuration of group of tracking devices**

In cases when it is necessary to send the same command(s) to a group of devices, it is recommended to use the appropriate service from the device selection menu.

1. Write the command(s) to the file with the *.gcm or *.txt extension.
2. Start the Configurator and log in to a remote configuration of the tracking devices.
3. Choose a group in the device selection menu and click “Run command(s) for group of devices” button (Pic. 15).
4. Enter password of a super user (Pic. 16). By default, the superuser password is similar to the password of remote configuration account.

**ATTENTION!** If you change the password of remote configuration account, the superuser password is not changed, it remains the same.

5. Select a previously saved file with the *.gcm or *.txt extension and click “Send command(s)” button (Pic. 17).
After sending the command(s) to the group of devices, the settings will be applied at each of the tracking devices. Duration of the settings applying depends on the availability and quality of the communication channel to each of the tracking devices.

**Remote troubleshooting of the tracking device**

Remote Configurator allows troubleshooting tracking devices with firmware higher than 196th. To start troubleshooting follow the following order.

1. Start the Configurator and connect to the tracking device in remote configuration mode.
2. Go to the “Troubleshooting” tab, select the necessary parameters and click “Start” button (Pic. 18).
Service. Remote configuration of Galileosky tracking devices
(version 4 dated from May 22, 2018)

Pic. 18
Troubleshooting of tracking device

You can save troubleshooting results to a file for further analysis.
Remote configuration by means of SMS commands

All Galileosky tracking devices can be set by means of SMS commands. The full list of commands with parameters for their running is presented in the Tracking devices User’s Manual which you can download here: https://galileosky.com/podderzhka/dokumentacziya.html

First you should authorize the phone number in the memory of the tracking device so that the tracking device could start receiving SMS commands. It can be done in the Configurator in the “Security” tab (Pic. 19) or with the help of AddPhone command.

Command format
AddPhone xxxx[,n]

Parameters
xxxx - is a four-digit password, 1234 by default
n – slot number (0-3) where a telephone number will be saved.

Explanation
When you configure the terminal from a cell phone, you should first authorize it by using the command. Up to 4 telephone numbers can be authorized.

Example
Request: AddPhone 1234
Reply: Phones (0) = 890101243456 (1) = (2) = (3) =

Duration of the command execution depends on the availability and quality of the communication channel to each of the tracking devices.

Remote configuration of the Galileosky tracking device is completed; the tracking device is ready for operation.

RSA “Galileosky”, LLC produces satellite monitoring equipment for GPS and GLONASS real time vehicles monitoring. The tracking devices determine the mobile object location
Service. Remote configuration of Galileosky tracking devices
(version 4 dated from May 22, 2018)

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.