Service. Data
Downloading by means of
Easy Keeper Application
via Wi-Fi

User Manual

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Application Assignment

Easy Keeper application (hereafter - the application) is designed to be used for downloading previously not transferred data packets from Galileosky devices via Wi-Fi and then sending downloaded packets to the monitoring server.

The app works in smartphones or tablets (hereinafter - the mobile device) with Android OS of version 5.0 or higher.

Installation of the Application

Easy Keeper application can be downloaded from Google Play market, you can find it by typing "Easy Keeper" in the search line (Pic. 1).
After installing the application, it is necessary to set access point mode for the mobile device and create Wi-Fi network in Android OS settings. For the specified Wi-Fi network Android assigns IP-address 192.168.42.1 or 192.168.43.1.

Pre-setting Galileosky Devices

In accordance with the algorithm, Galileosky devices automatically connect to the mobile device application via Wi-Fi network and send data to the app. To work correctly with the application firmware version of the devices should be 16.4 or higher.

For setting up the tracking device to operate with Wi-Fi application, go to tab Settings -> Data transmission of Configurator software in accordance with Picture 2:

1. specify the IP address, given to the mobile device, in "Primary data server" and set the port as 60522;
2. set the network parameters: SSID, authentication type and password according to the set parameters in the mobile device.

You can also set encryption of transmitted data. For that, set the key parameter in the Configurator software, tab Settings -> Security (Pic.3).

Attention! If the encryption key is set in the device setting, then the same key must be specified in the application, otherwise data cannot be transmitted.
Downloading packets from Galileosky devices

The application has a four-tab navigation bar that allows performing various operations (Pic. 4).

Loading packets from Galileosky devices

You can download the packets from the devices in the tab "Loading". The package downloading service is enabled by clicking the "Start" button (Pic. 5).

The running service waits for inbound connections to port 60522 and loads packets from devices to the application database. The IMEIs of devices that are currently loading the packages will be displayed in a list on the "Loading" tab. Once all the backup data has been received, the IMEI is removed from the list, but the application continues to load packets from the device until this device has broken the connection.
Attention! Storing all the data packets from devices is completed in a special application folder in the mobile device's internal memory, so there must be enough free space in memory to work correctly on the mobile device.

**Statistics on packages loading**

A list of all the devices, from which the packages were loaded but not yet transmitted to the server, is displayed in the "Statistics" tab (Picture 6), available through the application navigation bar.

The following fields are available for each device in the list: IMEI, number of packets accepted, and the date/time of the last packet. The dialogue provides a button to change the sort order of the device list:

- "by devices" - in ascending order of IMEI.
- "by dates" - in descending order of the dates of the navigation data from the packets.

Attention! The devices, which data are loaded with all the data, are listed in green.
Sending packets to the server

The "Sending" tab, available through the application navigation bar, is designed to send data packets from devices to the monitoring server. The mobile device must be connected to the Internet through a Wi-Fi network (in this case, the mobile device is already an external network client) or via mobile internet.

To transmit data, you should use the list of IMEI of devices from which the packets were saved to the application base, mark those devices which data you want to transmit to the server, and click "Send to Server" (Picture 7).

Attention! Before you send data, you should check and, if necessary, change the address of the receiving server using the "Change Server Address" button (Picture 8).
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You can also specify a date range in the dialogue that includes all unsent packets from the database by default. Only packets that are in the selected period (Picture 9) will be sent to the server.

When the packets are unloaded, a dialogue is displayed with the upload status. This dialogue includes the number of devices, that have already been completely unloaded, and the number of all devices which packets have been selected for unloading. The dialogue also displays all errors that occurred during unloading (Picture 10).
Managing Application Data

Application data is managed through the "Settings" dialogue, which is available through the navigation bar. This dialogue box displays the number of already sent packets in the application database and the size of free space in the internal memory of the mobile device. By clicking the "Base Cleaning" button, you can remove the packets that have already been unloaded from the database (Picture 11).

Besides, in this dialogue, after clicking the "Change Encryption Key" button, you can change the encryption key, used when loading packets from devices, if the same one is set in the device settings (Picture 12).

The application controls the length of the key to be entered to avoid any error.

Configuring the application to collect data from tracking devices via Wi-Fi and their further uploading to the monitoring server is completed.
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.