

Locator 2.20  
Shareware  
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Locator sends position information via GPRS to a webserver, useful for tracking people or vehicles.

Available information:

- position (internal/external GPS, network-based positioning on S60 3rd Edition phones)
- speed, altitude, heading (internal/external GPS)
- MCC, MNC, LAC, Cell ID, Cell broadcast

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## User guide

This demo sends the location of the mobile phone to our server (gsm cell identifier or gps information - latitude and longitude). It connects automatically to our server using a predefined GPRS connection, at predefined time periods.

A Bluetooth-capable GPS device is required if you want to send gps information (e.g. Emtac Bluetooth GPS, or Fortuna Bluetooth GPS, etc.).

## SETTINGS

Connection period: it shows the frequency of the connection (in seconds). In this case, number 100 means that it connects to the server in each 100 seconds.

Upload mode:

- HTTP: uploading with a HTTP GET command to the server  
Url: url to call with the predefined parameters, default:  
www.viking.tm/gpsloc.php
- TCP/IP: position sent using a TCP/IP socket  
Server: server to send TCP message to  
Port: port on server to send TCP message to
- FILE: write position to a file  
Type: Waypoint file, CSV file or Google Maps KML file
- SMS: send position to a predefined number in an text message  
Phone number: to send the text message to

Connection: select among the available Internet connections.

Positioning: shows the information being uploaded to the server:

- Cell ID: uploads the gsm cell information ONLY (MCC, MNC, LAC, Cell ID)
- Bluetooth GPS / Internal GPS: uploads GPS latitude and longitude information additionally to cell information. It connects only if the GPS data is valid
- Network based: tries to get position from a positioning server, if position is valid, sends to server (available in S60 3rd Edition phones).

Automatic startup:

- Manual only: no automatic startup
- On phone start: automatically starts application after phone start
- During interval: automatically starts/stops application at the selected start/end time positions
- On SMS: application will be started if phone receives a text message with the content: !!LOCATOR!!

Speed unit: you can set the preferred speed unit for displaying and uploading.

## DISPLAY

The received location information is displayed below the cell id and signal

strength. It is displayed with red when the information is not valid (the GPS device is not in range, or the current location is not determinable).

#### HOW TO CHECK THE INFORMATION SENT TO OUR SERVER

At this page:

<http://www.viking.tm/gps>

you can get the location information. Just enter the IMEI number of the phone, then select the day.

#### HOW TO INTEGRATE

The program sends the information to our server by default, however, you can easily integrate in your system. The program

calls an Internet page using special parameters:

[www.ourserver.com/gps.php?imei=35111222233333&cell=12345&mcc=216&mnc=1&lac=120](http://www.ourserver.com/gps.php?imei=35111222233333&cell=12345&mcc=216&mnc=1&lac=120)

or

[www.ourserver.com/gps.php?](http://www.ourserver.com/gps.php?imei=35111222233333&cell=12345&mcc=216&mnc=1&lac=120&lat=4710.1058N&long=01945.1212E)

[imei=35111222233333&cell=12345&mcc=216&mnc=1&lac=120&lat=4710.1058N&long=01945.1212E](http://www.ourserver.com/gps.php?imei=35111222233333&cell=12345&mcc=216&mnc=1&lac=120&lat=4710.1058N&long=01945.1212E)

depending on the Connection value Settings.

#### VALUES SENT TO THE SERVER

imei: IMEI

mcc, mnc, lac, cell: network identifiers

signal: signal strength (-dBm)

If position information is available, the client sends the following parameters:

lat: latitude (NMEA format)

long: longitude (NMEA format)

speed: speed (km/h or mph or knots)

heading: heading (degree)

alt: altitude (m or feet)

#### SAMPLE DEMO SERVER

In the ZIP file, a free demo server is attached. You need a web host with php and mySQL support to run it.

Just unpack the contents into a new folder, ask for a Google Maps account at [www.google.com](http://www.google.com), set the values in [config.php](#).

You also have to set up the database table storing location information by executing this script:

```
CREATE TABLE IF NOT EXISTS `GPSLoc` (  
  `IMEI` varchar(15) NOT NULL default '',  
  `Datum` datetime NOT NULL default '0000-00-00 00:00:00',  
  `Latitude` varchar(15) default NULL,  
  `Longitude` varchar(15) default NULL,  
  `IP` varchar(15) NOT NULL default '',  
  `Speed` double default NULL,  
  PRIMARY KEY (`IMEI`,`Datum`)  
);
```

SERVER SUPPORTS HTTP MODE ONLY, WITH NETWORK-BASED OR GPS-BASED POSITIONING.

If you want to support cell-based positioning, you can use our cell database, but:

- you need to have a valid CellPos application license (you can buy one at our homepage)

- check the database if cell coverage of the area you want to use in at <http://www.viking.tm/gps/cellpos.php>,  
because we can give you absolutely no warranty that it will work there or not  
(please help us to  
collect more cells with CellPos application)
- replace `gpsloc.php` with `gpsloc_cell.php` (but do not forget to add a valid IMEI number to the script).

Please install the client software, enter Settings (HTTP, and the url of the server + new folder name + `gpsloc.php`), and you will be able to track the phone. E.g. in our case, you should set <http://www.viking.tm/gps/gpsloc.php>, and you can see the map at <http://www.viking.tm/gps/>

Now you can use a mobile phone to view last position of all tracked phone, using `act.php`.

This script generates a KML document, that could be viewed in e.g. Google Maps Mobile

(<http://www.google.com/gmm>), or Mobile GMaps (<http://www.mgmaps.com>).

Google Maps Mobile: enter the full url of `act.php` to Search.

Mobile GMaps: go to Menu/Services/View KML/Open Web Address and

enter the full url to the `act.php` script (e.g.

<http://www.viking.tm/gps/act.php>).

In Mobile GMaps, you can also visualize KML logs saved by GPSMap.

## TROUBLESHOOTING

No GPS connection / changing GPS device:

On S60 2nd Edition devices: use Option/Reconnect GPS (lasts for about 10-15 seconds).

On S60 3rd Edition devices: make sure Your internal GPS device are enabled (for e.g. in Nokia N95),  
or remove all paired GPS devices by using Your phone's Bluetooth pairing option in "Connections" menu.

No position when selecting Network based positioning: go to the Positioning settings in your phone menu

(e.g. Menu/Settings/Phone settings/General/Positioning), and make sure that you have selected a valid

Internet access point. If still does not work, try to use the following position server: `supl.nokia.com`

## BACKUP/RESTORE

Application will be backed up / restored during phone backup/restore process.

## Version History

- 2.20 + autostart features
  - + file and SMS sending supported
  - + selectable Speed unit
  - + demo server: displaying last known position on mobile phones
  - bugfixes
- 2.10 + position source includes Network-based
- 2.01 + speed, heading, altitude sent
- 2.00 + S60 3rd Edition version
- 1.00 First release

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#### PURCHASE

The registration of CellGPS costs 11.95 USD / 9.95 EUR.  
Shareware version is fully functional for 30 days.  
Visit <http://www.viking.tm> for purchasing.  
The purchase process requires the input of the IMEI number  
(obtain your 15-digit IMEI by pressing \*#06# on your phone).

#### UPGRADING

Upgrading from a previous releases is very simple, just install the new version over the old version.  
Future upgrades are free for registered users, there is no need to type in the old or a new registration code again.

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#### SUPPORTED HARDWARE

##### S60 2nd Edition version:

Nokia 3230, Nokia 6260, Nokia 6600, Nokia 6620, Nokia 6630, Nokia 6670  
Nokia 6680, Nokia 6681, Nokia 7610, Nokia N70, Nokia N72, Nokia N90  
Nokia 6682

##### S60 3rd Edition version:

Nokia 3250, Nokia 5500, Nokia 5700 XpressMusic, Nokia 6110 Navigator  
Nokia 6290, Nokia E50, Nokia E51, Nokia E60, Nokia E61, Nokia E62  
Nokia E65, Nokia E70, Nokia E90 Communicator, Nokia N71, Nokia N73  
Nokia N75, Nokia N76, Nokia N77, Nokia N80, Nokia N81, Nokia N91  
Nokia N92, Nokia N93, Nokia N95

##### UIQ 3 phones:

Sony Ericsson G900, Sony Ericsson G700, Sony Ericsson P1, Sony Ericsson P1  
Sony Ericsson W960, Sony Ericsson W950, Sony Ericsson P990, Sony Ericsson

##### M600

Motorola MOTO Z10, Motorola MOTORIZR Z8

##### GPS devices:

Bluetooth-enabled GPS devices and internal GPS. No known limitations.

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<http://www.viking.tm>

<http://wap.viking.tm>