

Limited Company MIT GEOMATICS  
199397 Saint Petersburg, Russia  
Korablestroiteley St, 30, letter A, suite 214H  
OGRN 1089847247280 INN/KPP 7801472512/780101001

Email: [market@probki.net](mailto:market@probki.net)  
Site: <http://www.probki.net>  
Phone: +7 812 3248863

## City Guide API Navigator

### Reference manual

**CONTENT**

**CITY GUIDE API NAVIGATOR ..... 1**

**REFERENCE MANUAL ..... 1**

**OVERVIEW ..... 3**

**SOFTWARE CALLS..... 3**

**COMANDS ..... 4**

**DELROUTE..... 4**

**SETROUTE ..... 4**

**VIEW ..... 4**

**HIDE ..... 4**

**SAMPLES..... 5**

## Overview

City Guide API is the navigation software City Guide with complementary services and calls that are used for cross-program data exchange between City Guide navigator and any other software installed on Android devices.

### Where is used

City Guide API is used for a car driver's working place set up particular for the different kind of data exchanging between City Guide navigator and special exterior software to be connected with dispatcher service.

### Platforms

City Guide API functionality is designed only for Android platform.

## Software calls

Calls of City Guide from exterior software performs as it is ( initial code is JAVA plus Android API using ):

```
try
{
    Intent intent=new Intent();

    intent.setAction(Intent.ACTION_SEND);

    intent.setType("vnd.android.cursor.item/vnd.net.probki.cityguide.cmd");

    intent.setPackage("cityguide.probki.net");    // here SW package name is used

    intent.putExtra(Intent.EXTRA_TEXT,"cgcmd ..."); // here instead of "..." any commands is used

    startActivity(intent);
}
catch(Exception ex)
{
}
}
```

Name of packages for setPackage are:

- "cityguide.probki.net" for the CityGuide software (as it is in the upper sample)

Notification! setType("vnd.android.cursor.item/vnd.net.probki.cityguide.cmd") parameter for any type of software remains invariable.

Call "Intent" starts City Guide software (if it has not been running) and put on the front of a screen.

Commands are set up by a string as EXTRA\_TEXT for Intent. If the string is not set up City Guide is

displayed on the front of a screen.

Command string must start from the key word "cgcmd". If not – whole string is ignored.

Each command consists of the key word might be followed by several parameters divided by spaces.

## Comands

Following commands are supported:

### delroute

delroute Delete current route. There are no parameters.

### setroute

setroute <N> <lat1> <lon1> <lat2> <lon2> ...

Set the route. Parameters:

<N> - number of route points. The last point is set up as finish , other – intermediate points of the route.

Next there are of <N> pair of "latitude longitude", set up in degrees. Sample: setroute 1 60.367 30.5

### view

view <lat> <lon> <orient> <incline> <scale>

Set up of map displaying. Parameters:

<lat> <lon> - latitude and longitude of the displayed point in degrees. Might be set up 0 0, then the point is not changed.

<orient> - Map rotation. Integer value in degrees limited from -360 to +360. If any other value maps rotation is not changed.

<incline> - Inclination of perspective. Integer value in from 0 dto 80. If value is below zero inclination is not changed.

<scale> - scale of view. Integer value of denominator. If value is 0 the scale is not changed.

### hide

hide

Remove City Guide from a screen to background. There are no parameters. This command has a sense if City Guide is on the front of a screen.

## Samples

There are several commands are possible to set up one-by-one in a one string. The sample of one common command string.

```
"cgcmd delroute setroute 1 60.367 30.5 view 60.367 30.5 361 -1 100000"
```

means:

- Delete current route.
- Set up new route by only finish point in coordinates <60.367N 30.5E>.
- Display set up coordinates on a screen in scale 1:100000, without maps' rotation and Inclination.

Document timestamp: 30.03.2018