

GEOLOCATED ALERTS AND USERS
GEOLOCALIZATION SYSTEM
WEB AND PLUGIN OF
hipoqih.com
User Guide

Version 0.2



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hipoqih.com project is seeking investors and partners, if you are interested contact to:
partner@hipoqih.com

Corunna, May 24, 2007

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1. Introduction

hipoqih.com is a system that allows to manage in internet the coordinates where you are, for example to communicate your position so they can follow you in a map on google maps.

With **hipoqih.com** also you can record geolocated alerts and to receive them in mobile terminals (like PDA, mobile phones, laptops, etc.).

It allows, using positioning systems like GPS, that these alerts can be received automatically when arriving at the corresponding point, so that the information arrives in the place that interests. It is a new form to see the Web.

It is compound of a Website in Internet (<http://hipoqih.com>) and a downloadable program (plug-in) that works in each corresponding terminal.

With **hipoqih.com** you can:

- o Make your friends and acquaintances, though they are not users from hipoqih.com, can follow your steps in google maps, or can see where you are in their mobile phone.
- o Share your position in the world with other people and to see its positions. It allows you to know where your friends are (of course, with guaranteed privacy)
- o Record alerts like in a geolocated agenda, to put notes or internet URLs linked to a geopoint that will jump in your terminal when arriving there.
- o Subscribe to public alerts broadcasted from other people or organizations.

hipoqih.com is free and universal, it works with GPS and Internet, and you can use it everywhere.

You only need an Internet access and a mobile terminal with GPS. The plug-in is developed for Windows XP, Windows mobile and Windows Smartphone, is under development for GNU/Linux, Nokia S60 Series and Blackberry.

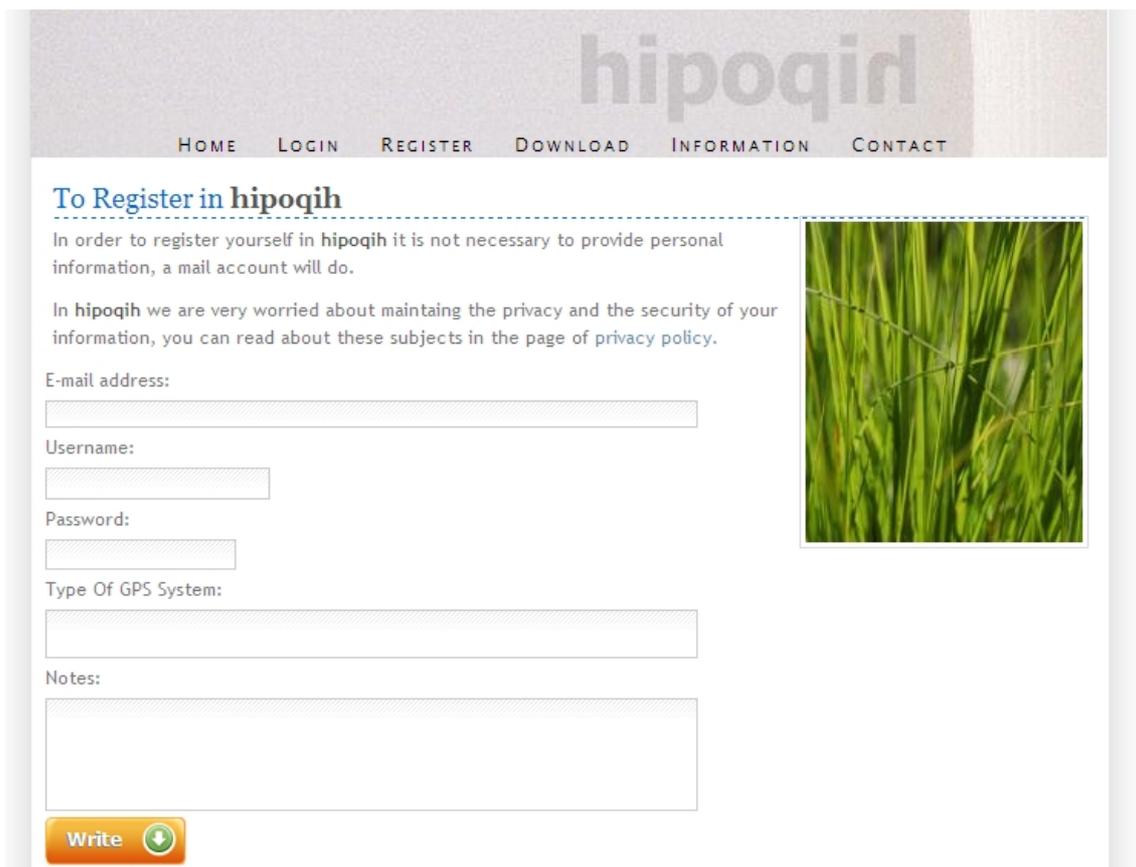
This is the user guide for the Beta 0.2 version of the whole of the system, for the internet site as well as for the plug-in.

2. Sign up in **hipoqih.com**

In order to be able to use the system it is necessary to sign up and get an account to get access at the website as well as at the plug-in.

2.1. To register

The first step is open this URL http://www.hipoqih.com/registro_pc_en.htm to fill the registration form:



The screenshot shows the registration page for hipoqih.com. At the top, the logo 'hipoqih' is displayed in a large, light grey font. Below the logo is a navigation menu with the following items: HOME, LOGIN, REGISTER, DOWNLOAD, INFORMATION, and CONTACT. The main heading of the page is 'To Register in hipoqih'. Below this heading, there is a paragraph of text: 'In order to register yourself in hipoqih it is not necessary to provide personal information, a mail account will do.' This is followed by another paragraph: 'In hipoqih we are very worried about maintaining the privacy and the security of your information, you can read about these subjects in the page of privacy policy.' To the right of the text is a small image of green grass. Below the text are several input fields: 'E-mail address:' with a text box, 'Username:' with a text box, 'Password:' with a text box, 'Type Of GPS System:' with a text box, and 'Notes:' with a larger text area. At the bottom left of the form is a green button with the text 'Write' and a green arrow icon.

Picture I: Registration form of the website

To register in **hipoqih.com** is not necessary to give personal data, a user name and a email address is enough. The information of the type of GPS that is used is simply informative.

After sign up you will receive an email of welcome to the system with the confirmation of your login and your password of the user.

2.2. Download the plug-in

To be able to receive the alerts of **hipoqih.com** necessary to install the plug-in in the systems you use to send your position and to receive the alerts.

The plug-in is free and you can install it in all the systems (PC, laptops and mobile terminals) that you use. The idea is to have working plug-in in the computer that you are using or to have it working in the mobile terminal when you are moving around the world. Whenever you want, you will be geolocalized and can receive alerts.

At the moment is available for these systems:

- o Version for Windows XP
- o Version for PDA with Windows Mobile 5.0
- o Version for mobile phones with Windows Smartphone 5.0

And we are working in the next versions:

- o Version for GNU/Linux
- o Version for Nokia S-60 series
- o Version for Blackberry

In the download web page (http://www.hipoqih.com/descargas_pc_en.htm) in the **hipoqih.com** website you can download the latest versions updated.

The most recent version of plugin is Beta 0.2 version.



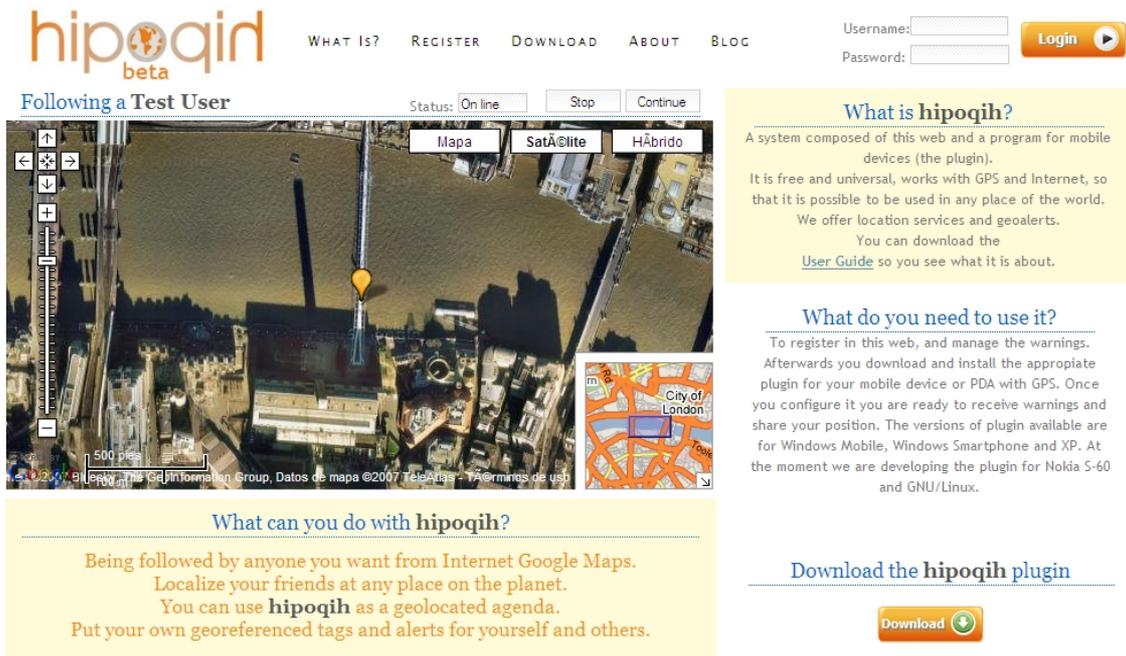
Picture II: Download page

2.3. Log in with registered user

If you don't have a **hipoqih.com** user you can access to the public web. However, to record new alerts and manage the alerts you want to subscribe is necessary to register and get a user and a password.

2.3.1. Home page

The home Web page (http://www.hipoqih.com/home_pc_en.htm) is the way to get into the personal Web. You should to introduce your *login* and your password to access. Once you press in the button *To Enter* the system verifies you user and an identifier is assigned to you, so that you can browse over the different pages from the web with no need to login in again.

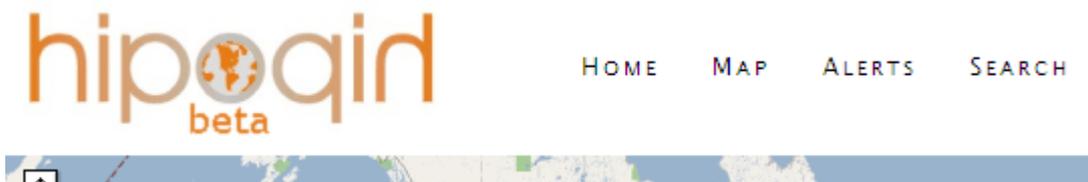


Picture III: Home page of hipoqih.com

If you have any troubles to enter or you don't remember your password, contact us (support@hipoqih.com) and we will try to answer you as soon as possible.

2.3.2. Web menu

Once you have entered with your user, the main page of the system appears to you. Here is where you are going to be able to make the most of things. This page has a menu in the top part. The main options are Map, Alerts and Search for:



Picture IV: Web menu

Pressing in each one of them you can go to the different web pages.

2.3.3. Map page

This is the page where you can see the alerts. There is two *checkbox* in the top-right that allow to see in the table the public alerts and my own alerts (created or subscribed by me) or both.

The alerts are ordered per dates. The most recent appears first. It shows five alerts per page. If there is more alerts you have to press the button *Next* to go to the following page.

You can see the alerts in the map, choose the desired option and click on the alert for show in the map.

My alerts

Public alerts

	description	details
	Limit speed sings in USA.	Sent by demo_en. Public.
	Geolocation	

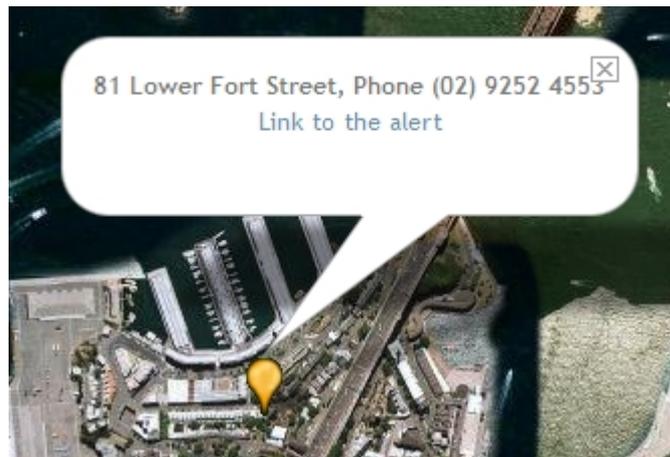
 Alerts 1-1 of 1 

Picture V: Data about alerts

This table shows the main data of the alerts, who recorded it, if it's public or private, its description and its topic.

In any time you can see the geopoints linked to an alert. To do this you have to press over the title of the alert and automatically you can see the geopoints of this alert in the map.

According to the type of the alert a different icon is used to represent the geopoints in the map. When pressing in the icon a sandwich appears containing the text of the alert and de URL associated to himself:



Picture VI: Showing an alert information

In the table and next to each alert are different icons based on the type of the alert, if you are subscribed or no, and if you are the owner of the alert:

A screenshot of a web-based form for creating or editing an alert. The form has a light orange background and a red 'X' close button in the top right corner. The fields are: 'Description: The Hero of Waterloo (Sydney)', 'Theme: Geolocation', 'Channel: PUBS', 'Sent by: andres', 'Initial date: [empty]', 'End date: [empty]', 'Type: Public.', 'Alert text: 81 Lower Fort Street, Phone (02) 9252 4553', 'Alert URL: http://www.australianbeers.com/pubs/hero/hi' with a green eye icon, 'Number of POI: 1', and 'Number subscriptions: 1'.

Picture VII: General data of an alert

You can press in the icons to see more forms of the alert:

- An eye in which when pressing there is more information.
- A green mark of verification to subscribe to the alert.

- A face showing that the alert is yours, pressing it you can subscribe other users to the alert.
- A cancel mark to unsubscribe to the alert.

2.3.4. Alerts page

In this page you are only going to see your alerts, pressing the button *Alerts* you can see all the alerts you are subscribed and pressing the button *My* you can see the alerts you have created. Here you can also create an alert pressing the button *New*:

In this page you can create new alerts, check the ones you are already subscribed to, and the ones you have sent.



New function "Follow me!!"

You can create a new "Follow me" alert to invite every body see your position. Select the duration and press the button. You receive a email with the link of "follow me" and instruccions. You need the **hipoqih** plugin and terminal with GPS and Internet. Your friends can follow it from a PC or a mobile phone with Internet.

"Follow me" duration:

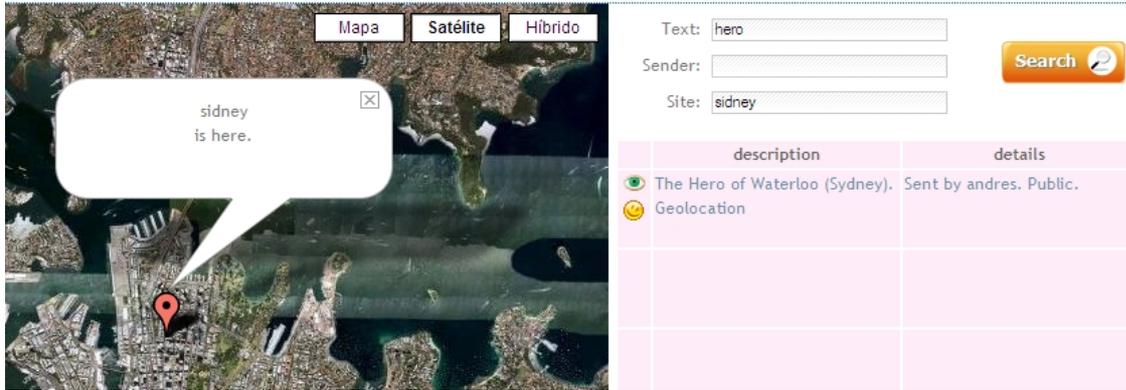
One day

Active "Follow me"

Picture VIII: Alerts and "Follow me" buttons

2.3.5. Search page

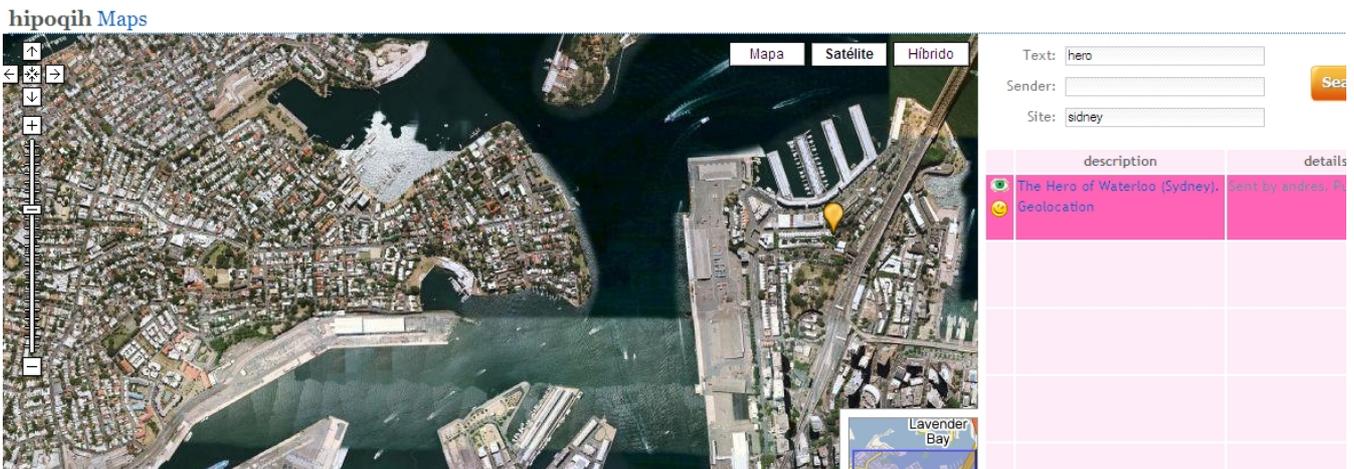
In this page the alerts can be looked for, as much of geographic form as by the name of the owner or the description of the alert.



Picture IX: Search page

When pressing the button *Search* it shows the alerts that match the criteria of the search. The text is searched in all the descriptions of the alerts and you can also introduce the login of other user to improve the search.

In the text box *Place* you can set a place with the same format of google maps, for example "10 market st, san francisco" or "barcelona".



Picture X: Search page showing the geopoints of an alert

3. Installation of the plug-in

This chapter explains the installation process for each one of the available releases of the plug-in and its configuration.

3.1. Available releases

Before the installation of the **hipoqih.com** plug-in, you should decompress the unloadable file. Each platform and version is different and the installation process is also different as we explain next:

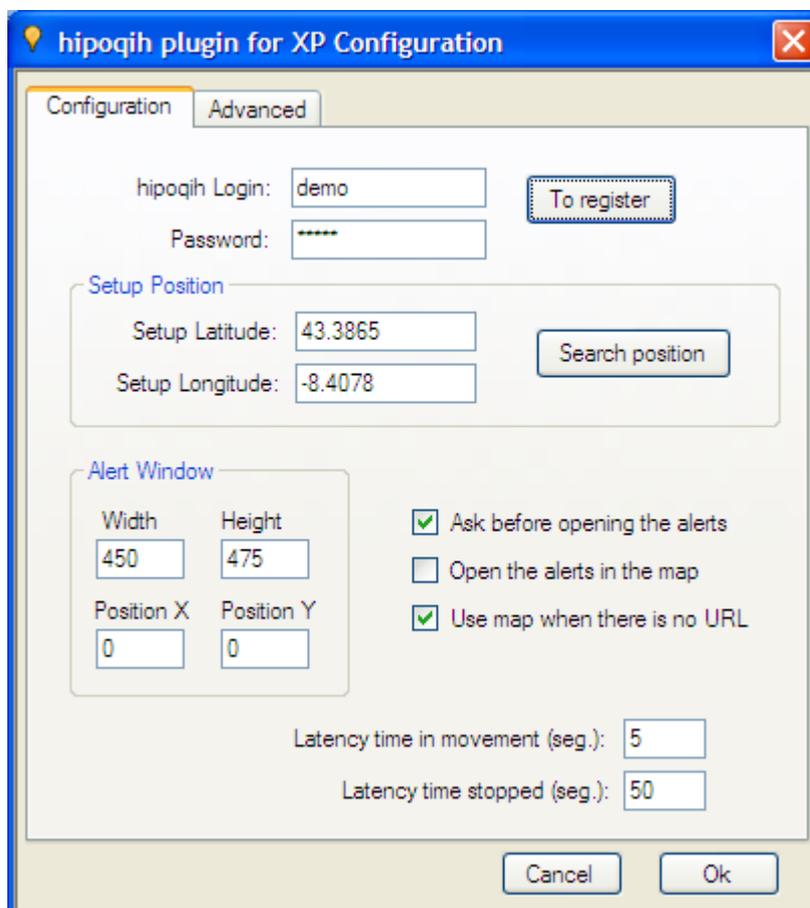
- o **PDA version for Windows Mobile:** .NET Compact Framework 2.0 must be installed (you can download from [here](#)). The next step is to copy to the PDA the files **hipoqihPDA.inf** and **hipoqihPDA.cab** and you have to run the last one to start the installation. The installation creates a folder in “Program Files” with the plug-in and the configuration file and an entry in “Programs” in the PDA.
- o **Phone version for Windows Smartphone:** .NET Compact Framework 2.0 must be installed (you can download from [here](#)). The next step is to copy to the phone the files **hipoqihSP.inf** and **hipoqihSP.cab** and you have to run the last one to start the installation. The installation creates a folder in “Program Files” with the plug-in and the configuration file and an entry in “Programs” in the phone.
- o **PC version with Windows XP:** .NET Framework 2.0 must be installed (if is not installed, the installation process starts automatically). To start the installation process you have to run the file **setup.exe**. This process creates the folder **\program files\hipoqih** with all the files to use the plug-in and an entry in the windows main menu.

3.2. Configuration

Once installed the plug-in it is necessary to set the configuration in our system. To do this you should go into the option in the plug-in menu. The first thing you must do is to introduce your user and password of **hipoqih.com** and the type of localization system you want to use.

You can choose between the GPS localization, use a fixed coordinates or read the coordinates from a file. In the future we hope to implement more localization systems.

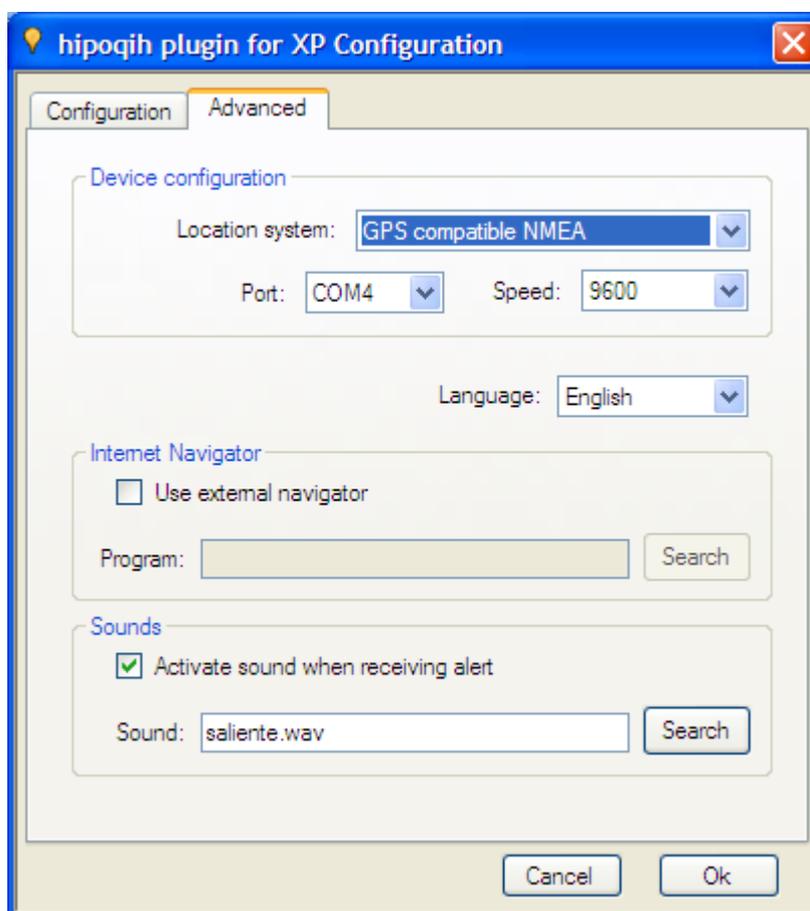
Each of the configuration parameters you can use in the plug-in is explained next. In some versions of the plug-in not all the parameters take all the available values and some pictures can be a little different.



Picture XI: The first configuration windows of the plug-in in Windows XP version

- The first step is to introduce the login and the password to access. Is the same user and password to log in the web **hipoqih.com**
- The starts position should be set if you don't have a GPS device.
- The Windows XP version of the *plug-in* for Windows XP can set the position and the size where de alerts will be shown.
- The behaviour of checkbox of this screen is:
 - If you check the option “ask before to open” when an alert arrives a message is shown asking about if you want to open de alert. If you don't check this option alerts is shown automatically.
 - If you check the option “Open the alerts in the map” instead to show the web page associated to the alert the plug-in will show a map with de alert on it.
 - The option “Use the map if doesn't exists an URL” opens a map for the alerts that arrives and doesn't has an URL associated.

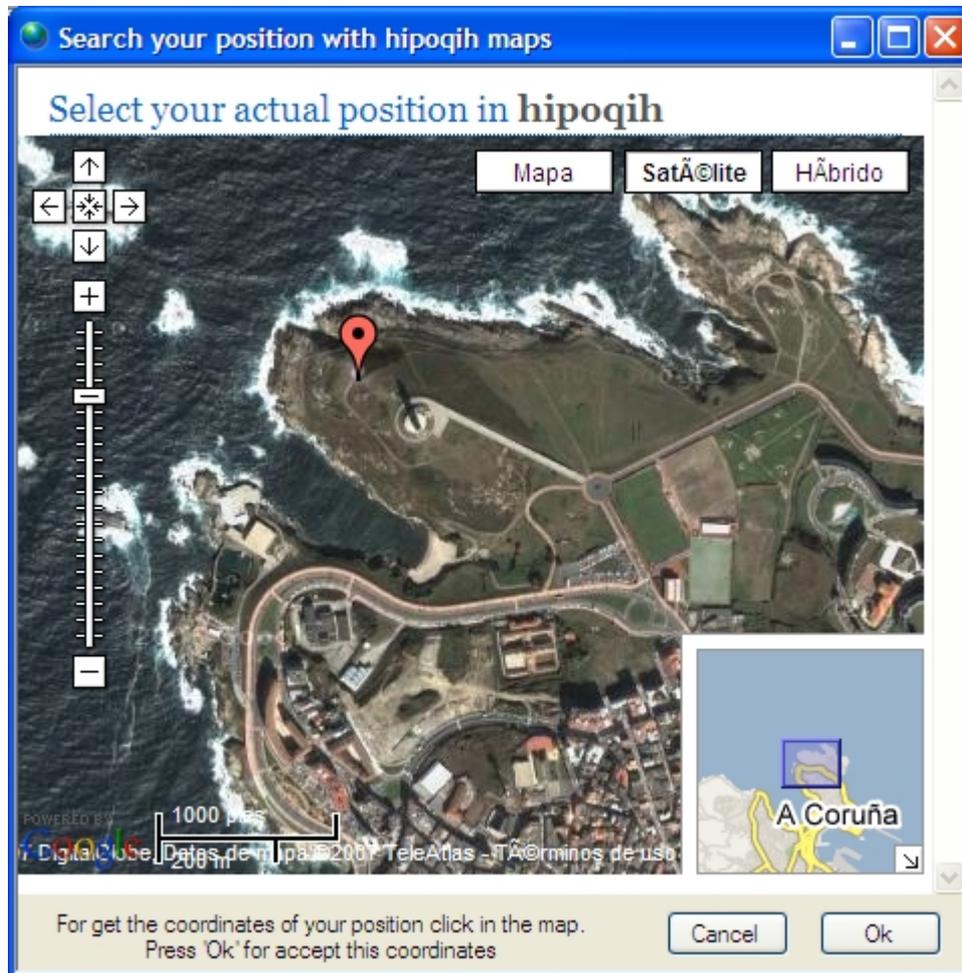
- The latency times are used to show each how long information about position is sent. There is two values, one used when there is movement and one when is stopped.



Picture XII: Second configuration window of plug-in in the Windows XP version

- You can choose the localization system in a list with the available options. If a GPS device is selected it has to be connected and configured.
- In some cases is necessary to set the port where the GPS device is connected and the connection speed. If you have any doubt about connect your GPS device with the *plug-in* of **hipoqih.com** email us to support@hipoqih.com and we will resolve your trouble.
- The *plug-in* is available in Spanish and English.
- The *plug-in* user his own browser to show the alerts, however it is possible to use other browser if the appropriate checkbox is checked and you select the executable of the browser you want to use.
- Also you can activate or deactivate the sound used in by the *plug-in* to warn about any incoming alert.

If you don't have a GPS device you must set your position manually. To record it, this is the form shown when the button "Search position" is pressed in the configuration screen:



Picture XIII: Screen to select your position manually in the plug-in for Windows XP

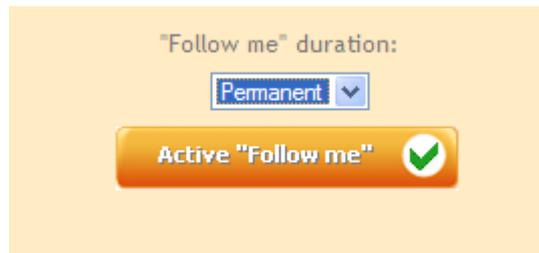
If you already have some value recorded as a valid position it is shown in the map and you can choose any other pressing in the map and later in the "Ok" button.

4. Using the system (Examples)

This chapter explains, step by step, some of the things you can do with **hipoqih.com**

4.1. To Active “Follow me”

One of the most useful and immediately things you can do with the system is activate “Follow me”. This will allow you to communicate your position to other people so they can locate you in a map from any mobile phone with internet access , or if they enter from a pc with explorer can see how you move over the maps of Google.



Picture XIV: Active a Permanent “Follow me”

Right now, the durations programmed are:

- o Diary
- o Weekly
- o Monthly
- o Permanent

Once you active “follow me” you´ll receive an e-mail with instructions where we will send you three different links to a URL.



The first link is for following you from a pc with internet explorer. It is a call to a dynamic page where will appear your position at the same time you move. The link it 's similar to this one:

http://www.hipoqih.com/followme_pc_en.php?clave=

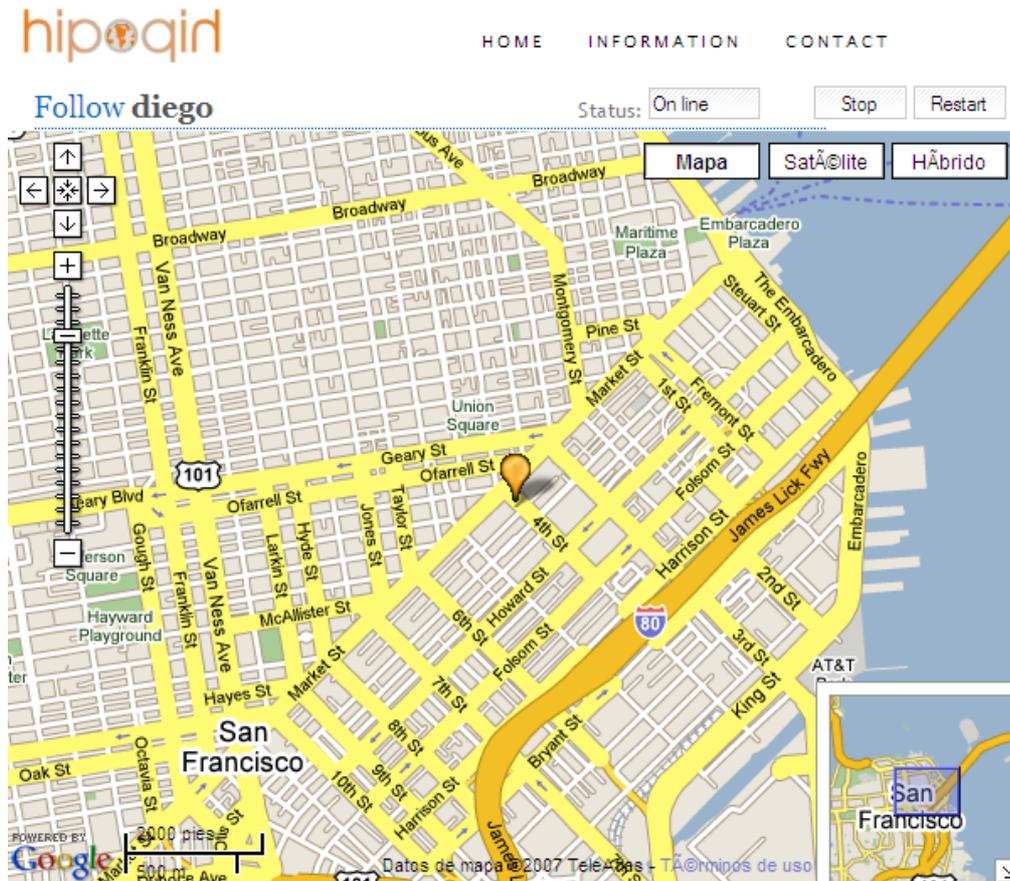
with a value of "code" at the end. This value is generated for every "follow me" and it 's unique, so it will only be seen by people you send the link or the value of the code.

The second link is to consult your position in a map from a mobile phone with internet access. The link is similar to this one:

<http://www.hipoqih.com/en.php?x=>

with a value of "X" at the end. This value is generated for every "follow me" and it 's unique, just the same as the previous example.

Picture XV: Map in mobile phone



Picture XVI: Page to follow a hipoqih.com user

The third link is to cancel “follow me” at any moment. The link is similar to this one:

<http://www.hipoqih.com/deletefollow.php?clave=>

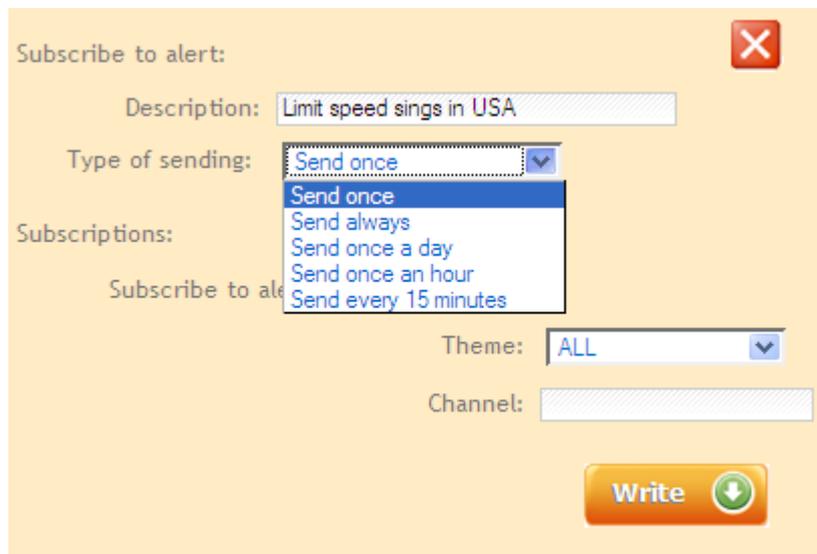
with a value of “code” at the end. This value is generated for every “follow me” and it’s unique, just the same as the previous examples.

You can active so many “follow me “ as you wish, and with different duration, the last one is the one is in activity, and you can cancel it in any moment.

4.2. Subscribe and unsubscribe to an Alert

To be able to receive an alert is necessary to subscribe to it. The way to subscribe is different according to the type of the alert:

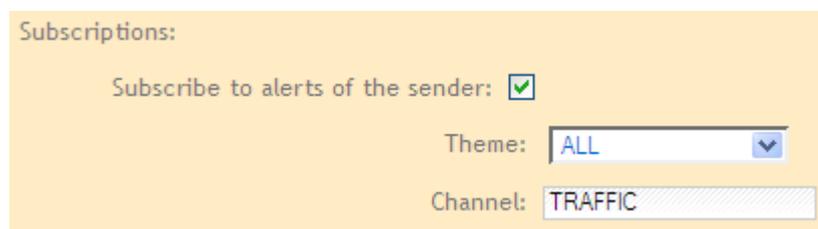
- o To subscribe to a public alert, press in the green ok icon in the left side of the alert.
- o To subscribe to a private alert, you will have to accept an invitation of the alert owner’s.
- o You are subscribed automatically to your own alerts.



Picture XVII: Subscribing a public alert

When you want to subscribe to an alert some information is asked to you:

- The receive type means how do you want to see the alert in your Terminal. The Web of **hipoqih.com** will send you the alert when it detects you are in a fixed distance from the geopoint of the alert, and according to the type of the geopoint, it will do it each time you are close to the geopoint, one time or depending of the last time it would sent to you.
- In addition, it is possible to subscribe to all the alerts of a certain user. In this way, you don't need to be pending of when a new alert is recorded. Whenever the user creates a new alert in the subject and the channel you have chosen in the subscription, you will be subscribe to the alert automatically. To do this it is enough with marking the *checkbox* and choose the subject and the channel you are interested:



Subscriptions:

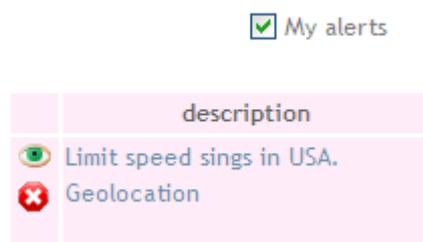
Subscribe to alerts of the sender:

Theme: ALL

Channel: TRAFFIC

Picture XVIII: Subscribing all alert of a channel

To see the alerts you are subscribed, The Web draws a red mark with a cross instead of the green mark. You can unsubscribe any channel any time by pressing this red mark, it will ask to you if you want to confirm the unsubscribe operation and then you will never receive the alert more.



Picture XIX: Mark that it indicates you are subscribed to an alert

4.3. Create an alert

Hipoqih.com gives you the possibility of creating alerts from the moment you have user. For it simple it is necessary to go to the page of alerts and press in the button *New*.

When a new alert is created is necessary to select the type. There is a fixed list of alert types but if you consider the list is not enough or you need to introduce your own type, the list can be extender.

Right now these are the defined types:



Picture XX: Alerts Types

The form to request the information of the new alert is this:

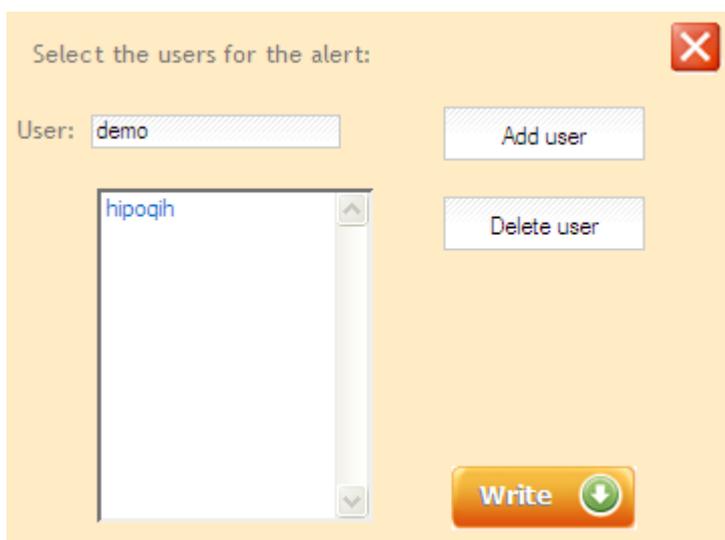
A screenshot of a web application's alert creation form. On the left, there is a map of Rome with a red location pin and a small inset map of Italy. The form fields are: 'Description' (text input with 'Italy travel'), 'Theme' (dropdown menu with 'For me (mine)'), 'Channel' (text input), 'Initial date' and 'End date' (text inputs), 'Latitude' (41.894450955) and 'Longitude' (12.504072189) (text inputs), 'Radius' (250) (text input) with '(meters)' label, 'Type' (checkboxes for 'For me' (checked), 'Positional', and 'Private' (checked)), 'Alert text' (text area with 'Underground stop for Juliana's house'), and 'Alert URL' (text input with 'http://'). At the bottom, there are two buttons: 'Write' (with a green arrow icon) and 'Cancel' (with a red 'X' icon).

Picture XXI: Creation of a new alert in the system

The valid data that are needed and values for each one of them:

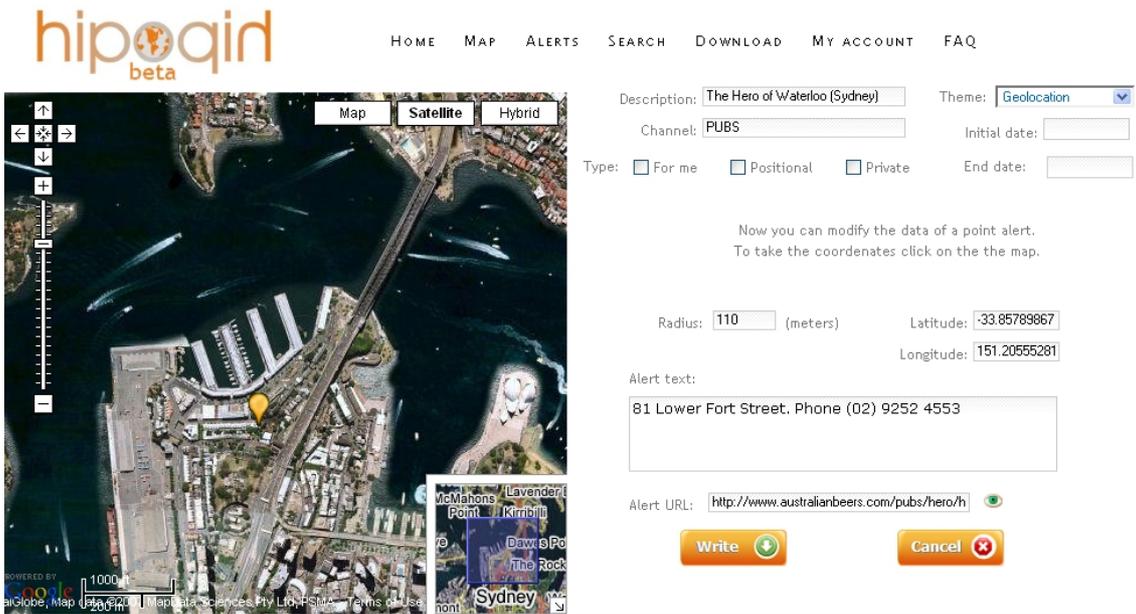
- The “*Description*” of the alert is a text where you can describe your alert.
- The “*Subject*” is chosen from a list.
- The “*Channel*” is a text where you can write what you want, but if you want to classify by channels your alerts you should introduce always the same values.
- The “*Dates*” are not mandatory. They Server to indicate the term of validity of the alert. If they are empty it means the alert is always valid.
- The “*Latitude and length*” are mandatory; it defines the *geopoint* of the alert. You can write it or you can pick in the map, in much more comfortable way, any place where you want to put the alert.
- The “*Radio*” also is mandatory and jeans the distance from the *geopoint* from which the alert is sent.
- You should select the “*Type*” of the alert checking those that interests to you.
- The “*Text*” is what appears in the textbox of the geopoint when you press the icon in the map of the web and also is the information shown in the textbox of the *plug-in* when the alert arrives.
- The “*URL*” is the Internet address that links the *geopoint* of the alert. It is not mandatory.

If the alert you have created is a private alert, you must select the users who area going to be able to see it, in this form:

A screenshot of a web-based dialog box titled "Select the users for the alert:". The dialog has a light orange background and a red close button in the top right corner. It features a text input field labeled "User:" containing the text "demo". To the right of this field are two buttons: "Add user" and "Delete user". Below the input field is a list box containing the name "hipoqih". At the bottom right of the dialog is a large orange button labeled "Write" with a green downward arrow icon.

Picture XXII: Selecting users for a private alert

These users will receive a message of confirmation.



Picture XXIV: Page with details of point of the alert

4.5. Use of the plug-in

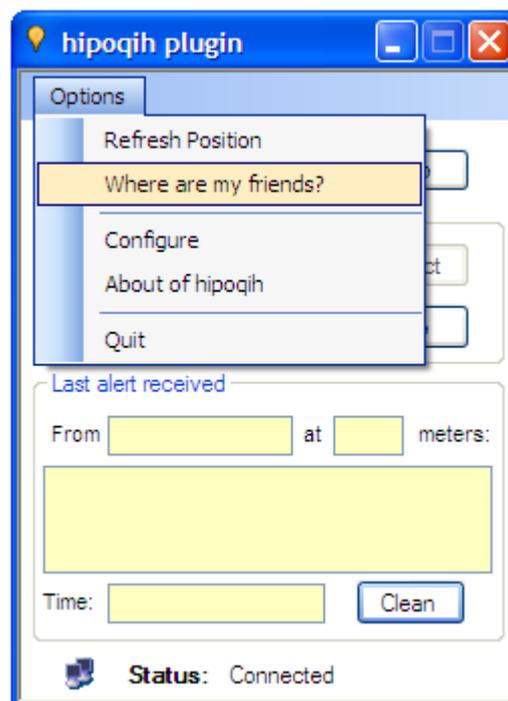
When you are subscribed to an alert of **hipoqih.com** you already can begin to use the *plug-in* to receive alerts.

Once you have configured the *plug-in* and the GPS in your PC or terminal, you must start it and you must connect it to the web. Of course, an Internet access is needed.

The working window of the *plug-in* is different according to the version and the platform, but basically you have a menu, controls to start and stop, textboxes where the position, the state and the last alert text are shown:



Picture XXV: Main screen of the plugin

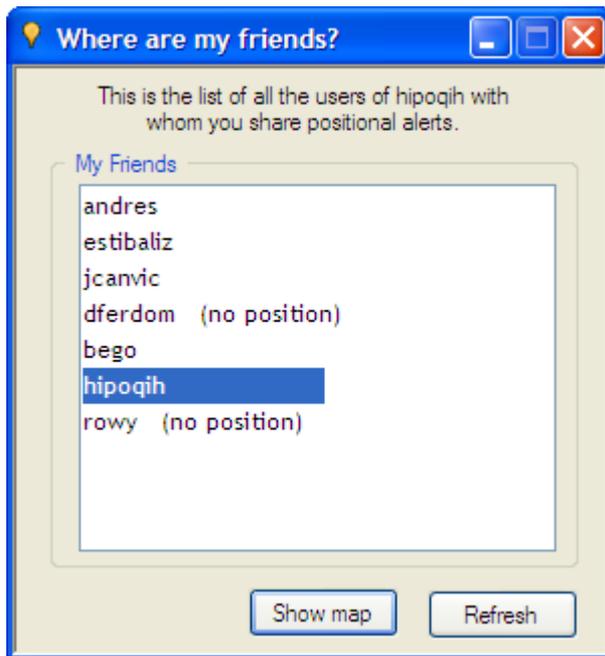


Picture XXVI: Where are my friends

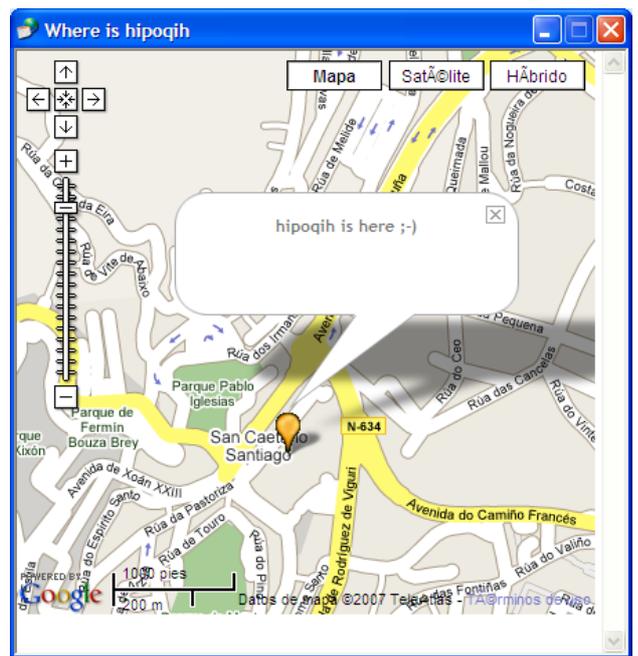
When the plug-in is running it is sending your position to the Web every certain time (according to the time parameters that you have in the configuration) and review if there is any message for you at the *geopoint* where you are. If there is an alert, its information is shown in the work window of the plug-in and, in function of the configuration, it is shown in the map directly, it sounds and opens the alert, etc.

If at any time you wish to not be located you have to press the button *Stop* and your position in the Web is erased and nobody can know where you are.

You can have connected and running the *plug-in* all the time. You can minimize it and it consumes few resources of the computer and a very small amount of bandwidth.



Picture XXVII: Your friends group list



Picture XXVIII: Map on plugin

In the menu you have different options to change the configuration, refresh your position at any moment and a form so you can see the position in a map of other users. You can also see your position in a map with the bottom map.

5. Annexed

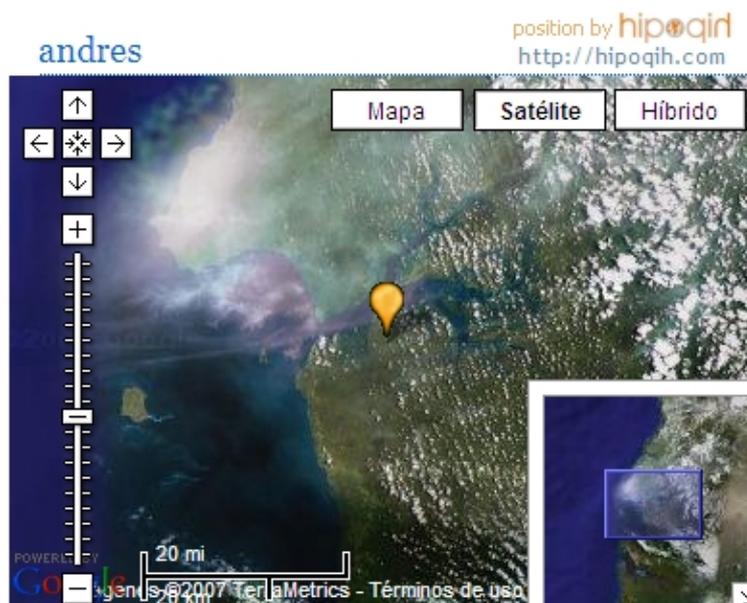
5.1. hipoqih API

With this project, we expect to create a social net of people georeferenced, we have made a public API so the users can include pages and elements of **hipoqih.com** in other web pages. If you want or you need any other type of integration, send an email to info@hipoqih.com and we will study how we can do it.

To include in any web page the window “follow me “from hipoqih with your position you only have to write this code:

```
<iframe  
src="http://www.hipoqih.com/followme.php?clave=  
kHRjEgd_Q-LVtMphTw_q  
&width=390&height=280"  
marginheight="0" marginwidth="0" frameborder="0"  
height="320" width="400">  
</iframe>
```

This will be a similar example:



Picture XXIX: iframe with hipoqih.com “Follow me”

As you can see is easy an you can change the size of the window modifying the parameters “height” an “width”. The value of the “code” is the chain of characters that is send from the web of **hipoqih.com** when you active “follow me”. This window is dinamic, what it means that anyone who needs to know where you are can see how you move. Of course, to make this posible you need to have hipoqih plugin download and be a user in your pc or in a PDA.

5.2. Types of Alerts

In **hipoqih.com** you can manage different types of alerts. Features of each type will be explained next and those things its use is interesting. Our desire is to build a useful system, so if you want or you need to include other type of alerts, send us an email to info@hipoqih.com and we will study the way to do it.

5.2.1. Public Alerts

These alerts are that ones all the users can see and can subscribe. Basically it is used to send information. At the time to create an alert, the creators decide if it is public or private.

5.2.2. Private Alerts

A private alert will be able to be seen only for the subscribed users and received for the users that the creator includes in its list. If an alert is recorded as private by the owner, he should include into a list all the persons who are going to receive the alert. After that, each one of these persons will be contacted to confirm the subscription to the alert. In this way, the creator of an alert can always know who is going to see the alert and nobody can be subscribed to the alert without its permission.

5.2.3. Own Alerts

If you want to manage a geolocated agenda you can use your own alerts. These alerts can be used only by the owner. You can create reminders, links with interesting information in different places, find friends, etc. All your own alerts are private alerts.

5.2.4. Positional Alerts

These alerts are used only to send the position of a determined user of the system. They are useful to locate people within people groups, friends, workers, etc. One of the users creates the alert and subscribes all the other ones. When the people confirm the subscription is possible to consult the position in the web. In addition, they will receive an alert when someone of them is in the area of the alert. All the positional alerts are private alerts.

5.3. hipoqih.com General Schema

