



POInspectOr 5.0

RNS 510
Personal POI

Quick Start Guide

March 2011
Version 1.0

This is a very quick guide on how to use POInspect0r to create your own custom PersonalPOI database for use on the Volkswagen RNS510 Satellite Navigation System.

This document is provided "as is" and has been created after some considerable time working with both the RNS and also POInspect0r.

As ever, thanks to rds++ for his amazing work on the application!

What you will need

For this to work, you will need the following items:

- a VW RNS510 with firmware 38xx or later installed
- a Windows XP or later system
- a suitable SD card for data transfer
- points of interest data (such as speed camera databases)

Installation

Download the latest POInspect0r from <http://poinspect0r.blogspot.com/> and then install on a suitable Windows PC.

Prepare the POI data

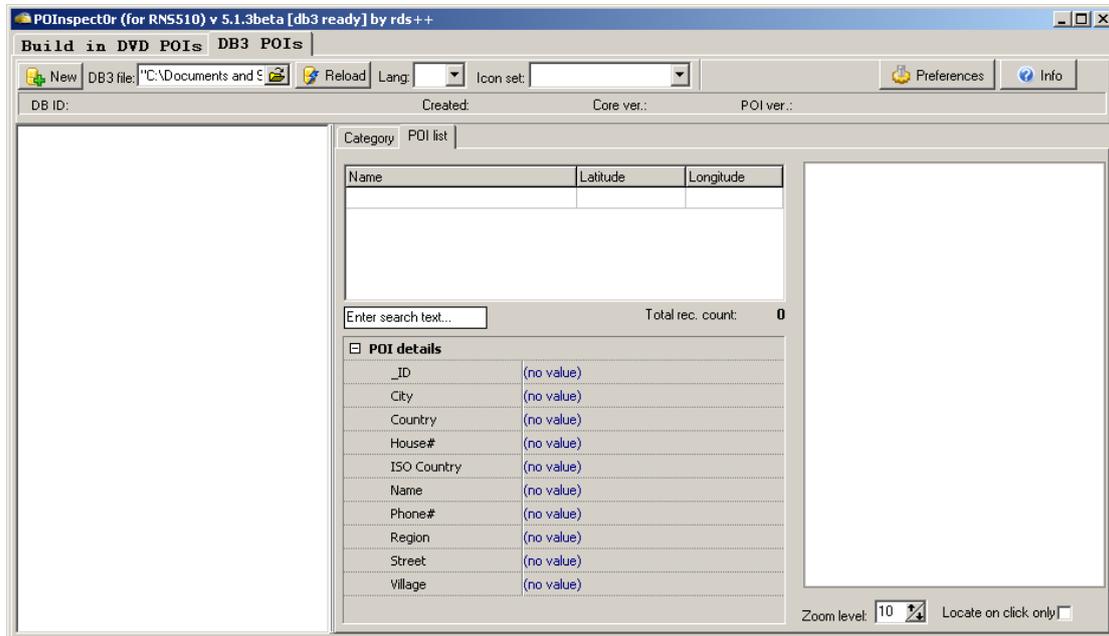
Download or create a suitable CSV or ASC file of points of interest. They need to contain, as a minimum, a name for the location and a latitude and longitude.

POInspect0r can use a variety of file formats – please check the documentation. More about additional fields later in document.

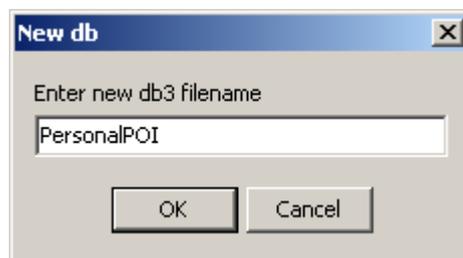
Create a new Database

You can either chose to create a new database or re-use one that already exists. The current beta version of POInspectOr can create a new database for you.

Firstly launch POInspectOr from within Windows Explorer.



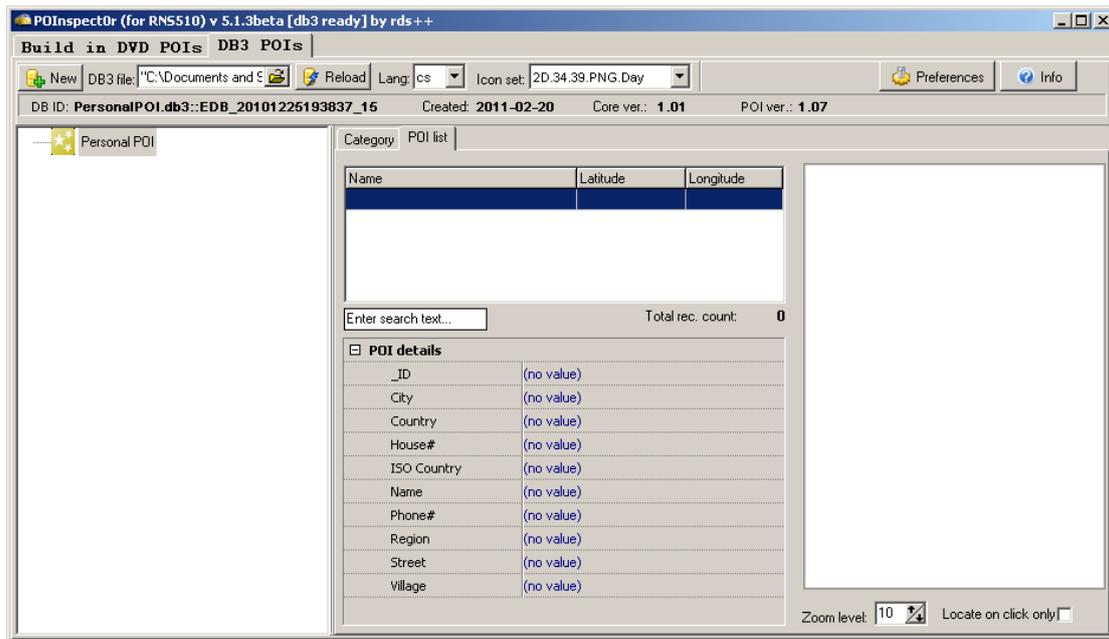
Now select "New" from the top left of the window and name the database with a suitable name (suggested is PersonalPOI). This name appears on navi screen as well.



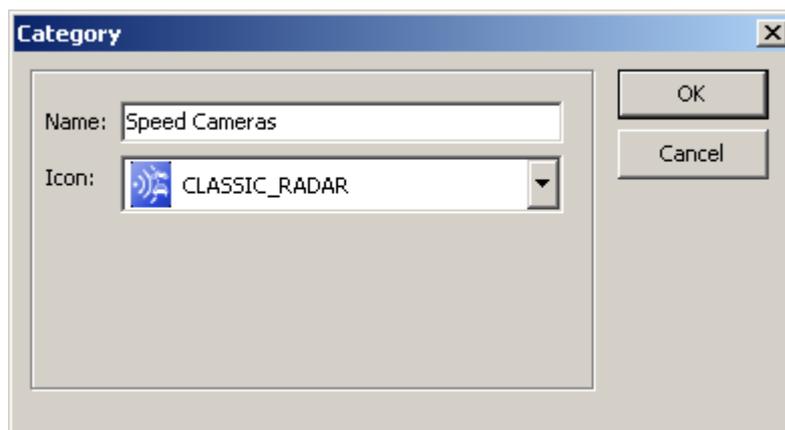
This will create a new database called PersonalPOI.db3 in the POInspectOr directory. If you wish to move this database, close POInspectOr, move the database, reopen the application and then locate and open the PersonalPOI.db3 file.

Tip: When you do not see a changes you've made, try click on reload button 1st.

Once you have created a new database, you will see a window with one POI category called "PersonalPOI" in the left.



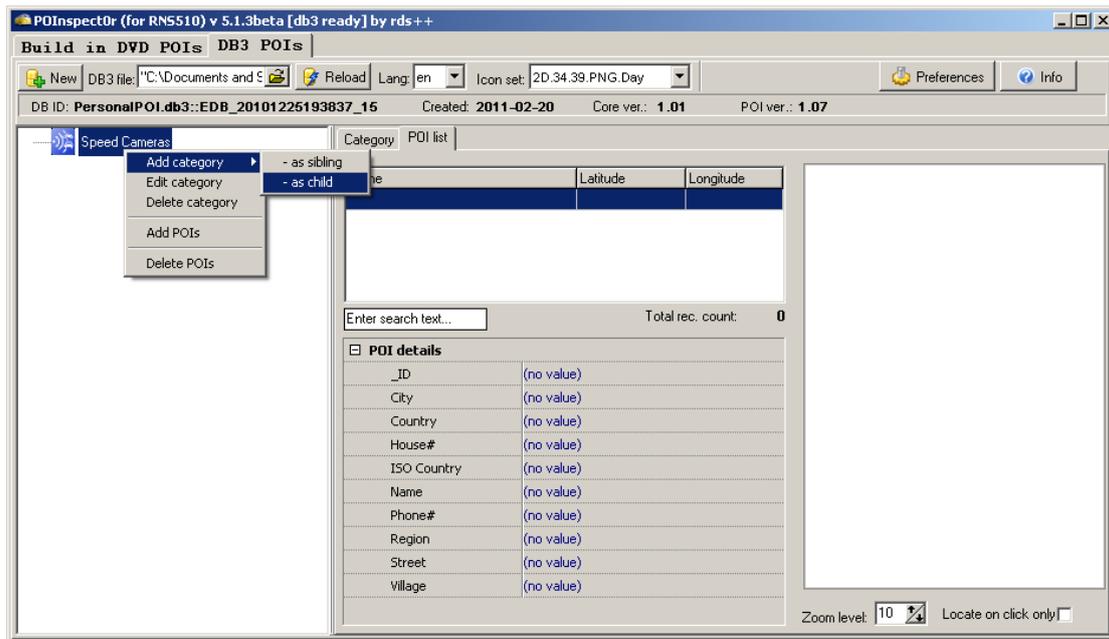
To change the name of this category, you simply right-click and then select “Edit category.”



We now want to add some further categories (or “children”) to this main category. Right-click the newly named category and then click “Add category > add child”. If you were wanting to add a new top-level category, then you can select “sibling” to keep it at the same level.

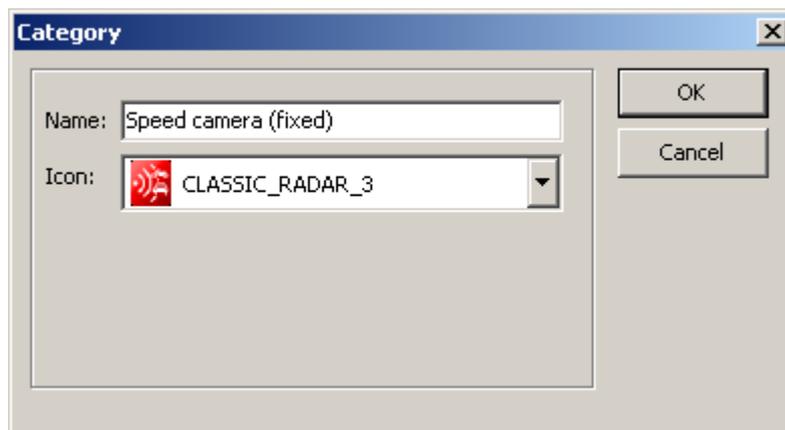
You can drag and drop categories to move them about. This will move category in the new selected parent folder. To move any non root category to the top root, drag and drop it to the bottom white empty place.

To delete a category you must first remove all POIs from that category and then remove the category itself.



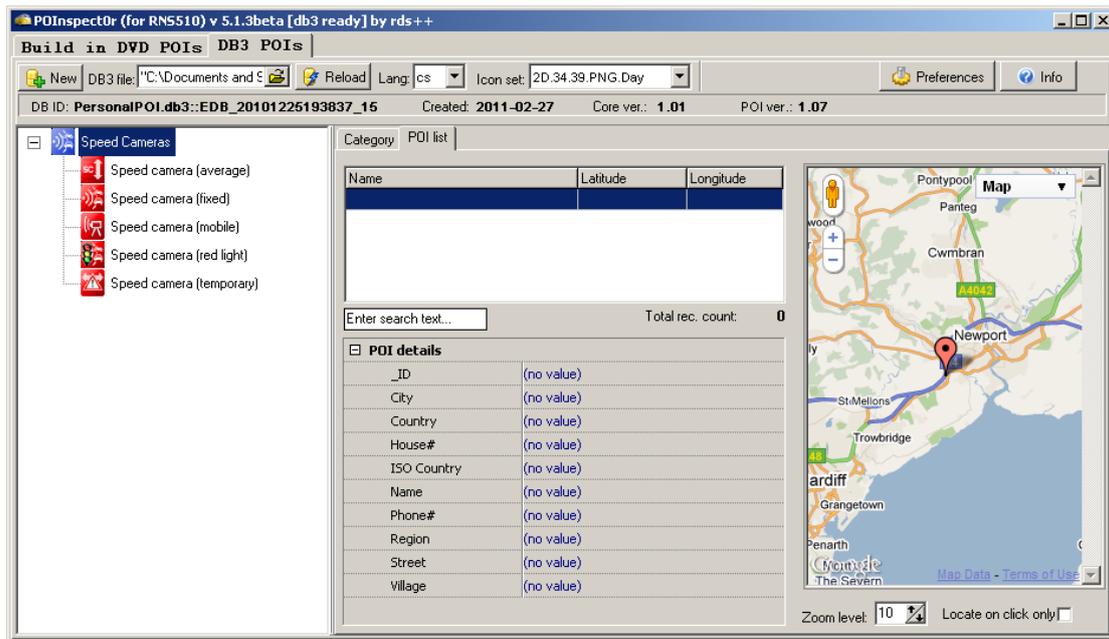
Create a suitable named category and then select the appropriate icon. In the current beta you cannot use your own icons.

In the latest version of POInspect0r new button called “Tools” has been added. There is possibility to add custom icons.

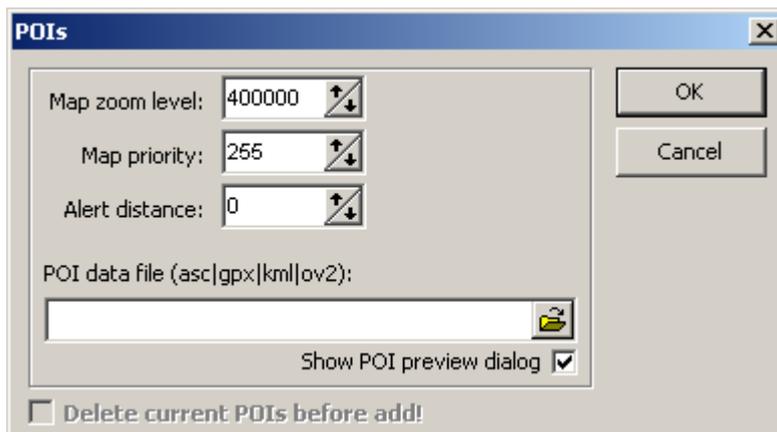


Add all of the other categories to the main category (as “siblings”) and select the appropriate icons. Once you have done, you can now add the POIs.

I always make back up copies at various stages - this can help when all goes wrong and you have spent ages setting up the categories!



Right-click a category and select “Add POIs”. This brings up a new dialog where you can enter data.

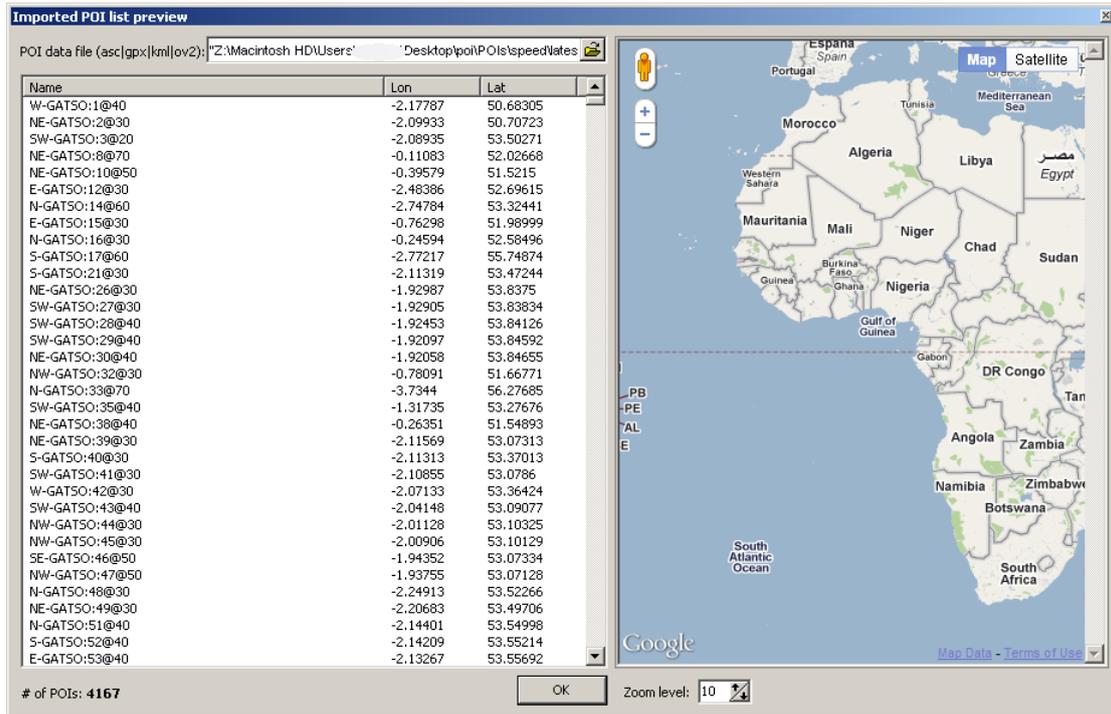


At the moment there is no evidence that the RNS will use the alert data for visual or audible alerts – this may well change when it comes out of beta.

The “Map zoom level” is in 10cm increments. The value of 400,000 means “only show this icon when the map zoom level is at 40km. So, if you had a POI that was only relevant when at a high zoom level (such as a red light camera), then you can enter a lower value (such as 1500 for 150m.)

Leave the other two settings as they are for the moment.

Once you have select the POI file, you will then be presented with a window confirming the locations of the POIs. It is worth checking one or two of them (you will need an internet connection for the Google maps) and then click the “OK” button.



Repeat these steps for all of the various categories.

Once you have added all POIs, do a final "Reload" and then, once all looks fine, close the application.

ASCII file format description

This is only format (for now) which supports extra info fields to be imported

Supported convention: separator [,] - string quote [""] - character [:] at beginning of line = commented line, this line is ignored

lon,lat,name name 1,country,region... | lon,lat,"name, name 1","country", region...

Supported fields: lon,lat,name,country,region,city,street,house#,phone#

Example: 14.443444, 50.050892, "Speed cam, 50kmh", UK, ,London, a Street, 2118, 005221454787

Copying the database to your SD card

The database is stored within the POInspect0r directory, unless you specifically move it. It will have the name you entered when you created the database, in this example it is called "PersonalPOI.db3".

Insert an SD card in to your computer and then create a directory at the "root" level of the card called "PersonalPOI".

Copy the database in to this directory and then safely remove the SD card from the system.

Installing the database on to the RNS510

This is the easiest bit. You will need to have started up the RNS before you copy the data (this can take a few moments) and it is suggested that you are not using the navigation or driving along!

Tip: if the RNS does not copy the data properly or it is not working, then you may need to reboot the system. The current firmware is beta and it often needs to be reset.



Please do not insert the SD card at this time, as you may need to remove an old POI database beforehand!

Once the system has started, select the SETUP menu:



Now select "Navigation":



The menu “My points of interest” may be greyed out. If it is not, then you will need to remove the old POI database first.



Select “My points of interest”:



Now select "Import". If you have "Delete" as an option, select it to clear the old data out.



Click "Import database" if all looks right:



Once the database has loaded (only a few seconds, depending on POI database size), you will then see a summary of what was loaded:



You can check the database by selecting "Details" from the POI menu:



Now we can go to the MAP screen and select the “Extras” menu from the bottom:



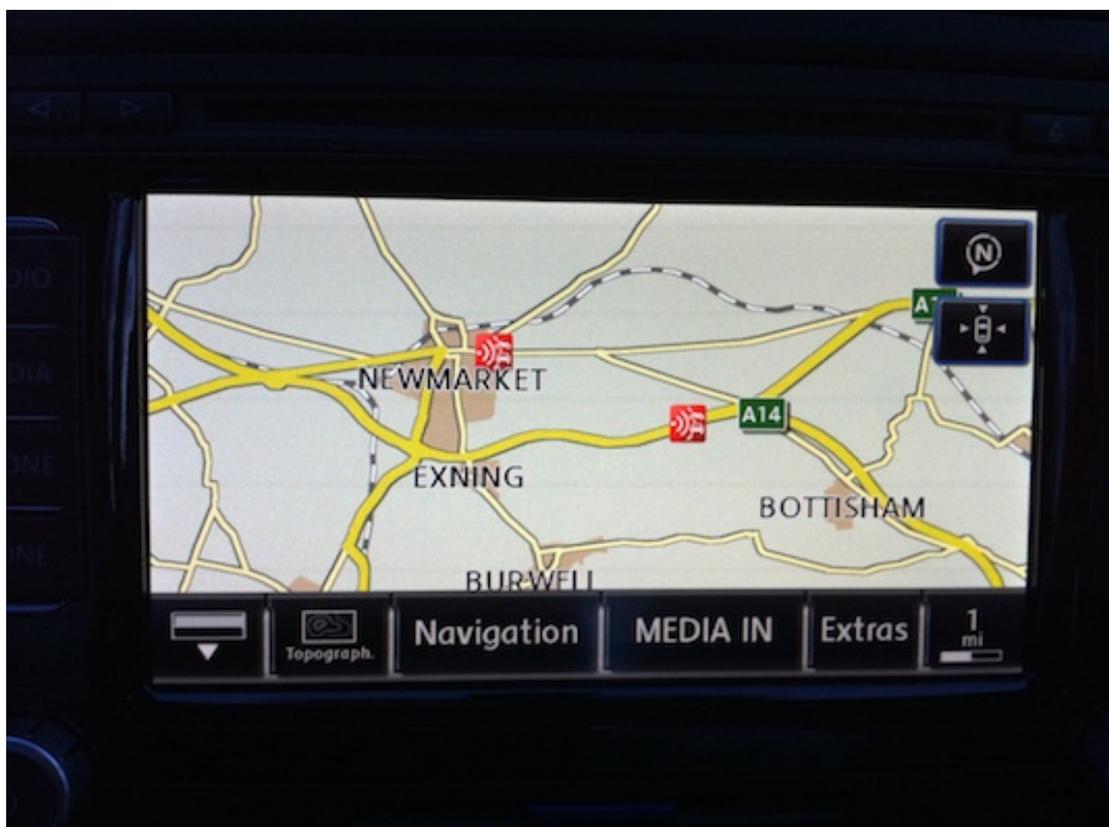
Click on “POI selection” and you will see a list of the available POI categories. Our new category or categories will appear at the bottom of the list – so scroll down:



Select the main category (here “Speed Cameras”) and then you can select / tick the categories you wish to have shown on the maps:



Once selected, click MAP again and you should now see the POIs!



If you want to check a POI, simply click it and you see a summary. If there is more than one POPI (such as one speed camera for North and one for South), then you will have a list to select from.



Credits

None of this would have been possible without the help from a selection of people from a number of forums.

<http://poinspect0r.blogspot.com/>

<http://www.golfgtiforum.co.uk/>

<http://gpsunderground.com/forum/gps-navigation-systems/car-gps-systems/volkswagen-seat-skoda/>

<http://vwnavi.com/forumdisplay.php/51-RNS-510-Navi-System>

<http://www.vwitalia.it/forum/f37/lista-firmware-rns-510-a-6383.html>