NavNGo iGO8 – working with KML files



Working with KML (Google Earth) files in NavNGo iGO8

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1 Introduction to KML files

KML is abbreviation for Keyhole Markup Language, which is an XML format for managing the display of geospatial data. The format is created by Google and used by Google Earth and Goole Maps and by many other geographical consumer applications, such as Flickr, Live Search Maps, Microsoft Virtual Earth and NASA World Wind.

For purpose of simplicity, this document will only discuss the use with Google Earth.

Google Earth users are able to create geographical information, such as marking and describing their favourite places in Google Earth with just couple of mouse clicks. This information can be organised in folders and subfolders, which can be saved as KML file.

The KML files contain the information, such as placemarks, which are always bound to a specific location with latitude and longitude. The files can be shared via email or via any other means with other users. There is also a <u>Google Earth Gallery</u> for publishing them.

KML files are often saved as KMZ files, which are simple zipped files with .kmz extension. These archives contain a single doc.kml file, which contains the actual information, with possibly images or such data that may have been used in the KML file itself.

For a comprehensive overview, see <u>http://en.wikipedia.org/wiki/Keyhole_Markup_Language</u>.

2 Creating and sharing the files using Google Earth

First, download and install Google Earth from http://earth.google.com/.

1. Find the place you would like to write about

You can either use search with the "Fly To" function or just search by zooming around.



2. Click on the "Add placemark" button and give the details

Click on the button that looks like a pin, move the pin to the proper position and write all the details you want to share about it. Then press ok.



3. Create all the placemarks you want to share

Keep on creating placemarks until you have noted everything you wish to share.



4. Organise them in subfolders (optional)

You can organise your placemarks in subfolders as you wish. Just create the folders and drag and drop placemarks into the appropriate subfolders.



5. Save the placemark or folder as KML file – and you're done!

Choose any of the placemarks, folders or the subfolders and choose Save As. Save the file somewhere on your computer as KML (not KMZ) and give it a name. You're ready!



3 Using KML files in navigation

3.1 General information

Several KML files can be used simultaneously. The same file can be used as either POI or as route point collection without modifications. This depends on where the file is placed:

- if placed in <u>\iGO\content\userdata\poi\</u>, the file adds new POI and POI categories
- if placed in <u>\iGO\content\userdata\route</u>\, the file is a saved routes with waypoints

The actual directory may vary depending on the device used. In case of problems you should contact the device manufacturer.

The POI volume can be quite substantial. Some devices have been tested successfully with up to 80 000 POI. The exact volume will depend on the actual device.

3.2 Adding extra POI

Place the file(s) in <u>\iGO\content\userdata\poi\</u>, and perform a POI search in an area nearby to the location of the KML POI. You will see the name of the KML file appear amongst the other POI categories.



POI category appears in listing with filename



Some POI are in sub-folder



The folder created is a sub-category



The POI can be found and browsed



The POI can be chosen as destination

The KML POI work as normal POI.

User interface example with more sophisticated subcategories:

You can use freely the amount of subcategories you see fit. The categories and subcategories are automatically created based on the folders and subfolders you create in Google Earth using the same folder names.



Screen one: POI category appears



Screen three: more subcategories



Screen two: subcategories shown

3.3 Importing KML files as routes

Create and order your waypoints in Google Earth (see example below). Organise the waypoints in a folder, putting the starting point as first and last delivery as last. Save the folder as KML file. Place the file in <u>\iGO\content\userdata\route\</u>. Several KML files can be placed under the directory simultaneously. The file names are not shown in the route loading, but instead the name of starting and endpoint placemarks.



Start NavNGo iGO8 in the Advanced Mode and access Route, Load Route function.



Main menu in advanced mode





Route listing in Load Route

Route menu



Route loaded with it's waypoints



Edit route allows reordering or optimisation

Route information shows route summary

4 Importing lots of POI into existing categories with KML

4.1 Limitations on KML POI volume

There is no fixed upper limit on the KML POI volume. However, due to acceptable performance on device, there will be an upper limit which will be in the tens of thousands KML POI range.

Furthermore, for improving the performance, on the first startup the KML files will create indexes on the device. Therefore the first startup (and every subsequent startup when the KML file is modified) will be slightly slower to allow for indexing the KML files. Only the modified files will be re-indexed, it is possible to split the POIs into arbitrary amount of files.



Below graph shows example of the first and second startup time increases on a normal 400 MHz navigation device. It is possible to observe that only the initial startup increases steeply.

However, when adding more POI the startup times start to vary considerably. For example, with 20 000 KML POI the initial startup (indexing) can take over 5 minutes and the subsequent startups may have over 10 seconds extra delay (on 400 MHz device).

4.2 Organising POI and adding POI into existing categories

The <name> property of the <Document> is used to determine the name of root level POI folder, into which the content POI are imported. If the name is one of the application internal POI category names (see 7 Annex: list of all read only POI category names), then the content POI are imported into that category. Otherwise, the content POI are imported as a new category that has the name of the <name> property of the <Document>.

```
Example: you want to import POI into the Mexican restaurants category. Structure as below:
<Folder><name>Restaurant</name>
<Folder><name>Other_Restaurant_Area</name>
<Folder><name>Mexican</name>
...
</Folder></Folder></Folder>
```

You can also create any number of subcategories by using the <name> property of the <Folder>. Again, if the subcategory names match the internal POI category names, the POI will be imported into those subcategories. Otherwise new subcategories will be created.

There is one limitation. In the KML document at root level you can either have folders or placemarks (POI). Combination of both is not supported. We recommend organising your root level placemarks (POI) into appropriately named folders (categories).

4.3 Using several KML POI files

You can use any number of distinct KML files. If several KML files import into same categories they will simply merge into the POI folders without any kind of conflict resolution.

4.4 Example of the supported fields and format

Please see the supported fields highlighted in the below sample. You can use a minimalist model to reduce the size of KML files if you generate them automatically for example. But, be careful! Files with syntax errors will be silently ignored.

For long text in <description> the text is condensed. If you want to use multiple lines in the description, you can put line breaks into the text (also using \n). It will not work when last rendered line is reached, the last line will simply show as much of the text as possible.

```
Call us for catering service!
                 Wedding and party cakes baked to order.
       </description>
       <phoneNumber>+1 555 5555 55/phoneNumber>
       <Point><coordinates>-
122.4131901635356,37.78298928225838,0</coordinates></Point>
</Placemark>
<Placemark>
      <name>Coffeemania</name>
      <description>Coffee round the clock
                  This fantastic little boutique offers one of the best
selections of fresh coffee in San Francisco, and moreover, it is open
around the clock!
      </description>
      <Point>
                 <coordinates>-
122.4990346225223,37.76930433073522,0</coordinates></Point>
        <metadata><telephone>+1 555 3232 33</telephone></metadata>
</Placemark>
</Document></kml>
```

The above content looks like this on the application itself. The content shows in it's own category (Coffee and Bakeries).

The POI are shown, both have their phone number and extra information available. The additional information is rendered on separate lines as it was defined in the KML file.







5 Some use cases

5.1 Sending invitation to a wedding (etc) to friends

For any event that has multiple locations, it is convenient to pinpoint the locations using for example Google Earth. In this case, you would create separate markers for the church, the place where the guests can stay and the place where the party is. You create your markers, save the file and send to all invited people by email.

Depending if they have a compatible navigation system or not, they can check the locations either on PC using a compatible tool or put it directly on their navigation system.

5.2 Keeping company customer addresses up to date on devices

A company can export their customer addresses into automatically generated KML files which can be distributed and synchronized on devices automatically or manually.

These delivery points can be organised in several ways, for example by customer (if a single customer has several delivery or maintenance locations) and can use several levels of subcategories etc.

The exact customer address can also be searched with name search.

5.3 Exporting delivery points for the day as KML file

For a delivery company, once the work for the day is planned, the driver can receive their delivery points pre-loaded on their navigation device. After this, the driver only needs to load their route and follow the instructions until all points are delivered.

It is also possible to use this in conjunction with the "Optimise route" feature.

You may want to export as the first route point always the starting point for deliveries (the warehouse). This may facilitate the follow-up steps in loading and starting the route.

5.4 Sharing recurrent routes with other drivers

For a company making recurrent deliveries or driving recurrent routes (bus and comparable), it is possible to produce all the routes as KML files and share them between the devices of all drivers. This allows the drivers to learn faster a new route.

In this case, the bus stops could be exported as further POI database that can be made visible for the drivers.

6 Questions and answers

Question:

I can't find or activate this feature?

Answer:

Some parts of this feature require you to use the "Advanced Mode". For some variants this feature may not be accessible or work differently. In this case contact your device vendor.

Question:

What happens to files and placemarks outside my map coverage which are present on the device?

Answer:

Any files and placemarks that are outside the map coverage on the device will be silently ignored. For example, for a route including waypoints outside the map coverage only the waypoints on the map will be used.

Question:

Once you load a route, does route guidance automatically start with voice instructions?

Answer:

You can choose if you wish to start navigation. Then, you will be asked if you wish to start navigation from elsewhere than the GPS position. If you answer no, you will be routed either directly to the first waypoint. If you answer yes, you should reach the route on your own, after which the guidance will resume.

Question:

I have a huge amount of own POI. Can I change their visibility settings by user?

Answer:

Each user can choose which categories of POI they wish to see on the map.

Question:

What happens if some parts of the route are not reachable with my vehicle type or with taking into account the direction restrictions or such information?

Answer:

The routing will never make the user drive one-way roads into the wrong direction for example. For such routes, the software will calculate the best legal alternative route. On the other hand, if destination or viapoints are in areas that are not reachable, the user will receive a warning message.

7 Annex: list of all read only POI category names

The following is the list of internal POI category names. The names you will see will depend on the actual language and the actual shown names may be more user friendly and readable. The list is not ordered into categories and subcategories. Please note that for the following list is the global POI category list and these POI are not available for all countries.

Accomodation	Cash_Dispenser	German
African	Casino	Golf_Course
Airline_Access	Cemetery	Government_Office
Airport	Chinese	Greek
Airport_Ground	Christian	Grill
Ambulance_Station	Cinema	Harbor
American	Club	Hawaiian
Amusement_Park	College/University	Health_and_Care
Aqua_park	Communication	High School
Arrival	Community	Hill_Station
Austrian	Company	Hindu
Bank	Concert_Hall	Hippodrome
Banquet_Marriage_Halls	Continental	Historical_Places
Bar	Convention_Centre	Hospital_or_Polyclinic
Barbecue	Courthouse	Hotel_or_Motel
Bath	Cultural_Centre	Hungarian
Beach	Dentist	Ice_Skating_Rink
Belgian	Department_Store	Important_Tourist_Attraction
Bicycle_Repair_Facility	Departure	Indian
Bicycle_Services	Departure_Arrival	Indonesian
Bicycle_Shop	Doctor	Industrial_Area
Bistro	Domestic	Institution
Blood_Bank	Domestic_International	International
British	Drive-through_Bottle_Shop	Islamic
Buddhist	Dutch	Italian
Budget	Education	Jain
Bus	Elementary School	Japanese
Bus_Terminal	Embassy	Jewish
Business	Exhibition_Centre	Kindergarten
Cafe	Factory_Outlet	Korean
Cafe_Bar	Fast_Food	Lakes_and_Beaches
Californian	Ferry_Terminal	Latin_American
Camping_Ground	Filipino	Leisure
Canadian	Finance	Library
Car_Dealer	Fire_Station	Local
Car_Dealer_Repair	Freeway_Intersection	Maltese
Car_Repair_Facility	French	Market_Place
Car_Wash	Frontier_Crossing	Medical
Caribbean	General	Metropolitan_Train

MexicanSandwichMiddle_EasternScenic_Panoramic_ViewMilitary_InstallationSchoolMountain_PassSca_FoodMountain_PaskShopMuseumShopping_CentreNational_ParkSikhNatureSkating_RinkNight_LifeSkiing_CentreOpen_Parking_AreaSportOrientalSports_CentreOrientalSports_CentreOrientalSports_CentreOrther_Restaurant_AreaStadiumP_RSteak_HouseParking_GarageSwissPetrol_StationTaxi_StationPharmacyTennis_CourtPhone_BoxThaiPlace_of_WorshipTheatrePortugeseTourist_Information_OfficePortugeseTourist_Information_OfficePrisonTrolley_busPublic_Transport_StopTurkishQuickUndergroundRacetrackUnknownRailway_StationVegetarianRest_AreaWineryRestaurantWaterSportsRest_AreaWineryRestaurantWaterSportsRestaurantWaterSportsRestaurantWaterSportsRestaurantWaterSportsRestaurantWaterSportsRestaurantYaterSportsRestaurantWaterSportsRestaurantYaterSportsRestaurantYaterSportsRestaurantYaterSportsRestaurantYaterSportsRestaurantYaterSports <t< th=""><th></th><th></th><th></th></t<>			
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