

Intro

TripManager V1.4 introduces 2 new features that need an introduction to be able to work with.

The first is GeoCoding, the ability to lookup GPS coordinates (Latitude and Longitude) from (part of) an address, as well as the reverse, return an address from a pair of GPS coordinates. GeoCoding is available on the OSM map, and in the other new feature, the Trip Editor.

The second new feature is the Trip Editor. That enables you to directly edit the trip files. General options like Name, Route preference, Transport method and Departure date, but also the Route points that make up the trip. You can edit an existing trip, or create one from scratch, on the device Zumo XT(2) but also on a folder on your hard drive.

GeoCoding

Intro

TripManager doesn't have a database with the data needed, but it uses <https://geocode.maps.co/> as a webservice provider. To use GeoCoding in TripManager you will need an **Api_Key** that you can obtain by registering here: <https://geocode.maps.co/join/> If you use the Free plan you can issue 5000 requests per day, and 1 request per second. I have been using the Free account for over a year now and never felt the need to upgrade. Also worth noting that I never had spam from them, until now.

Getting started

- Get the Api_Key and save it somewhere in a safe place.
- Start TripManager
- Click on Advanced/Settings
- Select the GeoCode settings tab
- The 'GeoCodeUrl' should normally not be changed, unless GeoCode changes their URL.
- On the line that reads 'GeoCodeApiKey' enter (Copy and paste) your Api Key

- Notice the Memo fields under 'Address Format'

- The default lines are:

```
ISO3166-2-lvl4,state  
village,town,city,municipality,hamlet  
road+house_number
```

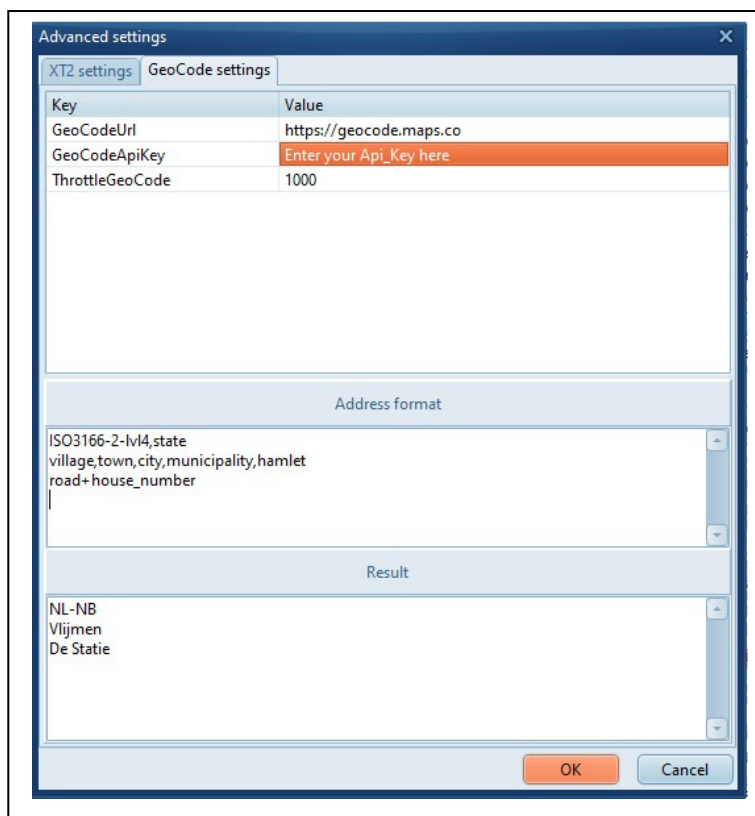
They define how the address info from GeoCode is formatted for use in TripManager.

- o Separate tags with a comma to specify a backup value.
2nd line: Use Village, if not avail use Town, if not avail use City etc...
- o Separate tags with a plus to concatenate tags.
Third line: use the Road name and append the House number.

For more info on the tags you can use see: <https://wiki.openstreetmap.org/wiki/Key:place>

See also the last page 'Address format examples'.

- 'ThrottleGeoCode'. For a free GeoCode subscription you are only allowed 1 request/second. Specifying 1000 (ms) directs TripManager to throttle the requests to adhere to that restriction.
- Click on OK.



Usage

A button has been added on top of the Map named 'Search'.

Assume you are looking for 'Europalaan 23' in 'Vlijmen'. (Address format as used in NL)

Just enter the Place 'Vlijmen', and look it up on the map.

Hexadecimal display OSM Map

Clear map **Search** Apply Coordinates Coordinates 51.65995, 5.473528 Route/Point

Free search Formatted

Enter search parameter

Vlijmen

To "free form" search for an address, you can pass the address string using the q parameter to the /search endpoint, e.g.:
555+5th+Ave+New+York+NY+10017+US

OK Cancel

Places found

Lat	Lon	Place
51.694263	5.2091225	Vlijmen, Heusden, North Brabant, Netherlands
51.6943062	5.2315878	Vlijmen, Maasroute, Vlijmen, Heusden, North Brabant, Netherlands, 5251 EL, ...

OK Cancel Retry

Select a location from the results, or click **retry** to adjust your search.

NL-NB
Vlijmen
Burgemeester Zwaansweg 7

Be more specific and add the street and house_number.

On the Free search tab use a + plus (or , comma) to separate the search parameters.

Or use the Formatted tab.

Vlijmen+europalaan+23

Search place

Free search Formatted

Enter search parameter

vlijmen+europalaan+23

To "free form" search for an address, you can pass the address string using the q parameter to the /search endpoint, e.g.:
555+5th+Ave+New+York+NY+10017+US

OK Cancel

Search place

Free search Formatted

Street

Europalaan 23

City

Vlijmen

County

State

Country

Postalcode

street=<house number> <street name>
city=<city>
county=<county>
state=<state>
country=<country>
postalcode=<postal code>

OK Cancel

Trip Editor

Intro

The Trip Editor should not be considered a full-blown trip planner tool. It can not, and probably never will, calculate a route. The trip file format has not been decoded enough, TripManager does not know anything about routing algorithms in general and more importantly used on the Zumo.

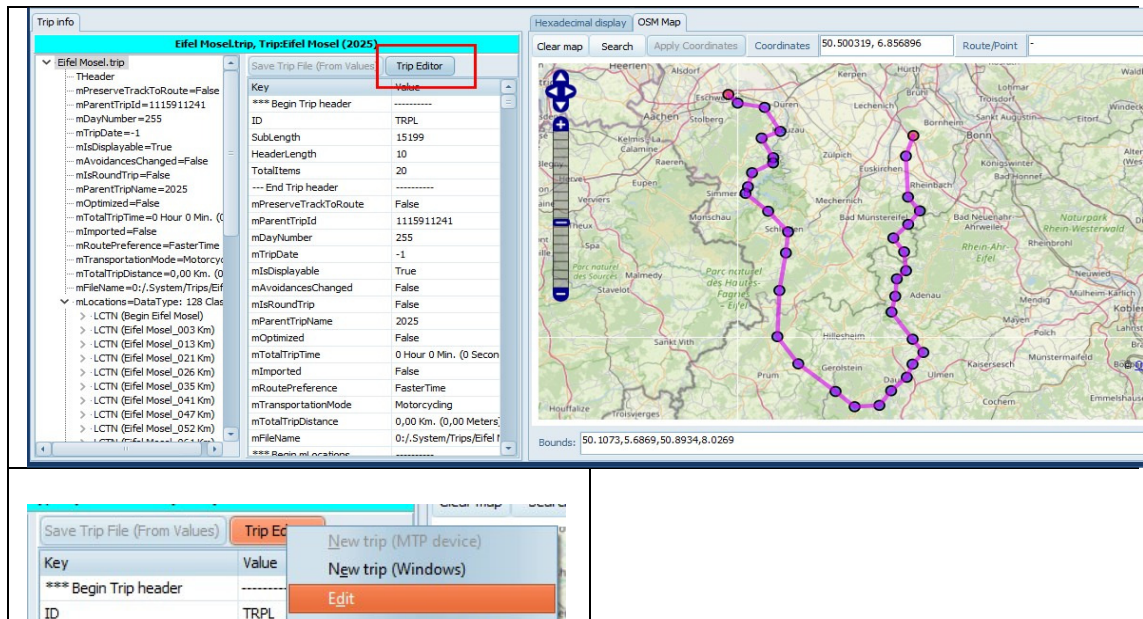
What it can do:

- Review the results of a calculated trip, and make minor modifications. Eg.
 - o Change general parameters. Trip name, Routing preferences, Transport method and Departure date.
 - o Add, or Delete a route point.
 - o Move a route point to a new location.
 - o Reorder the route points.
- Create a new empty trip. Add route points from map coordinates.
- Lookup address information for selected route points and save that in the Address field. That info will also be available in the Trip planner on the Zumo XT(2).
- Import/Export route points from/to GPX files.
 - o Import can read Via and Shaping points from a route in the GPX, or Way points.
 - o Export can create a GPX from a trip file, that you can import in BC.
- It can read/write trip files in folders on your computer's hard drive, and on the Device Zumo XT(2).

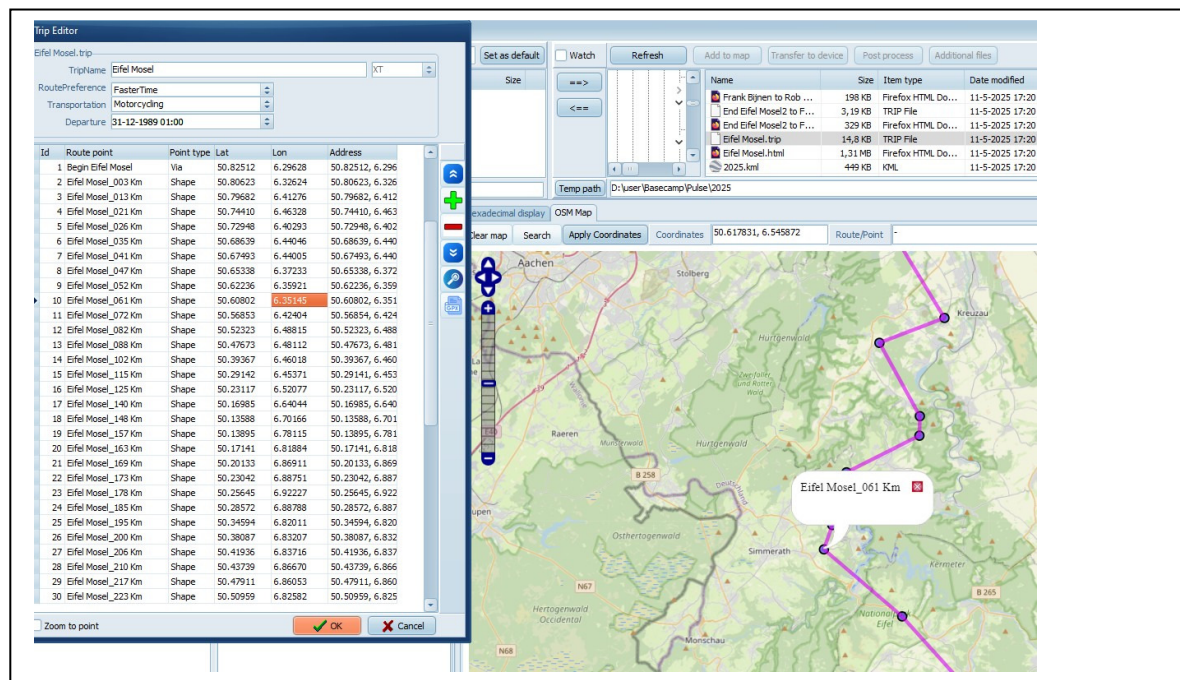
Modifying a trip clears any existing calculation result, and will make the Zumo recalculate the trip next time it is opened.

Editing an existing trip

Open a trip, from your hard drive, or the device
Click on 'Trip Editor', 'Edit'



The Trip Editor opens up on the left, leaving space for the map. Selecting a Route point will update the map.



Creating a new trip

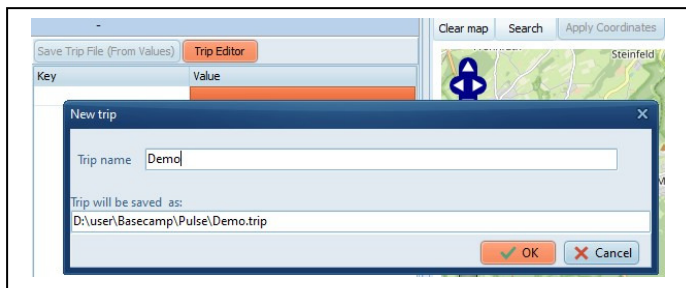
Choose either 'New trip (MTP device)', or 'New trip (Windows)'. A dialog opens where you need to enter a Trip name and click on OK

Notes:

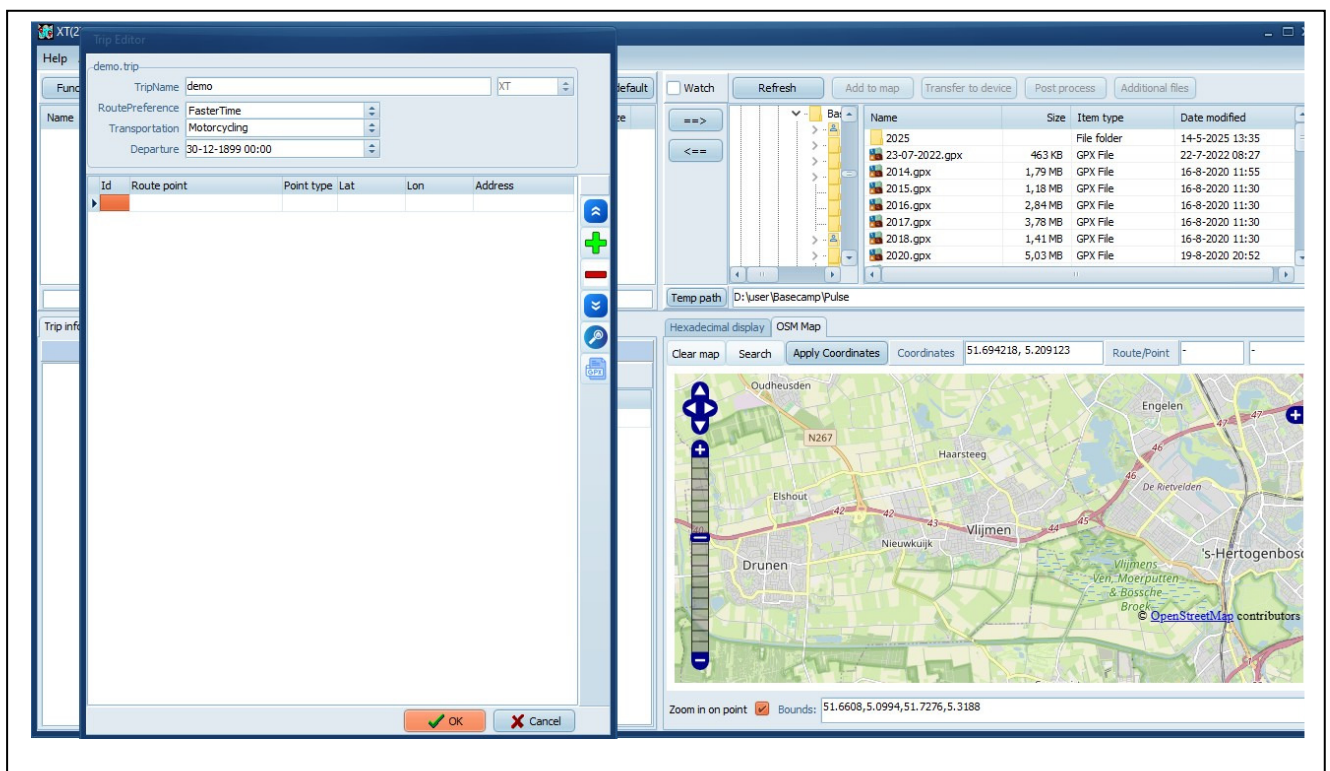
- Make sure the selected model matches the model you want to create the trip file for. XT and XT2 trip files are not compatible.



- MTP device will normally be an XT(2), but it is possible to use any MTP device that allows storing files. Hence the term 'MTP device' is used.
- New trip (MTP device) is only enabled if an MTP device is connected.



A blank Trip Editor window opens



Trip editor controls

The screenshot shows the 'Trip Editor' window. At the top, there are input fields for 'TripName' (Eifel Mosel), 'RoutePreference' (FasterTime), 'Transportation' (Motorcycling), and 'Departure' (31-12-1989 01:00). Below these is a table with columns: Id, Route point, Point type, Lat, Lon, and Address. A right-click context menu is open over the first row of the table, showing options like 'Select All', 'Copy', 'Cut', 'Paste', 'Move Up', 'Move Down', 'Insert', and 'Delete'. On the right side of the window, there are several colored buttons: a blue up arrow, a green plus, a red minus, a blue down arrow, a magnifying glass, and a document icon. At the bottom, there are 'OK' and 'Cancel' buttons.

Id	Route point	Point type	Lat	Lon	Address
1	Begin Eifel Mosel	Via	50.82512	6.20628	50.82512, 6.20628
2	Eifel Mosel_003 Km	Shape	50.80623		
3	Eifel Mosel_013 Km	Shape	50.79682		
4	Eifel Mosel_021 Km	Shape	50.74410		
5	Eifel Mosel_026 Km	Shape	50.72948		
6	Eifel Mosel_035 Km	Shape	50.68639		
7	Eifel Mosel_041 Km	Shape	50.67493		
8	Eifel Mosel_047 Km	Shape	50.65338		
9	Eifel Mosel_052 Km	Shape	50.62236		
10	Eifel Mosel_061 Km	Shape	50.60802		
11	Eifel Mosel_072 Km	Shape	50.56853		
12	Eifel Mosel_082 Km	Shape	50.52323		
13	Eifel Mosel_088 Km	Shape	50.47673	6.48112	50.47673, 6.48112
14	Eifel Mosel_102 Km	Shape	50.39367	6.46018	50.39367, 6.46018
15	Eifel Mosel_115 Km	Shape	50.29142	6.45371	50.29141, 6.45371
16	Eifel Mosel_125 Km	Shape	50.23117	6.52077	50.23117, 6.52077
17	Eifel Mosel_140 Km	Shape	50.16985	6.64044	50.16985, 6.64044
18	Eifel Mosel_148 Km	Shape	50.13588	6.70166	50.13588, 6.70166
19	Eifel Mosel_157 Km	Shape	50.13895	6.78115	50.13895, 6.78115
20	Eifel Mosel_163 Km	Shape	50.17141	6.81884	50.17141, 6.81884
21	Eifel Mosel_169 Km	Shape	50.20133	6.86911	50.20133, 6.86910
22	Eifel Mosel_173 Km	Shape	50.23042	6.88751	50.23042, 6.88751
23	Eifel Mosel_178 Km	Shape	50.25645	6.92227	50.25645, 6.92227
24	Eifel Mosel_185 Km	Shape	50.28572	6.88788	50.28572, 6.88788
25	Eifel Mosel_195 Km	Shape	50.34594	6.82011	50.34594, 6.82011
26	Eifel Mosel_200 Km	Shape	50.38087	6.83207	50.38087, 6.83207
27	Eifel Mosel_206 Km	Shape	50.41936	6.83716	50.41936, 6.83716
28	Eifel Mosel_210 Km	Shape	50.43739	6.86670	50.43739, 6.86670

Edit boxes TripName, RoutePreference, Transportation and Departure can be edited.

The model (XT, or XT2) is readonly, the model of a trip file can only be specified when creating .

The Grid columns can be edited, except for the ID, which is autoassigned.

Right Click brings up the context menu. All functions are also accessible using keyboard shortcuts.

The coloured buttons on the right:

Move Up

Insert

Delete

Move down

Lookup address (if configured)

GPX

Import

Export

Clicking OK saves the trip file, Cancel discards the changes.

Common tasks

Change a route point:

- You can change the name and address to something meaningful.
- Change from Shape to Via or vice versa.
- To change to GPS position you can overtype the Lat/Lon values, but it is easier to use the button 'Apply coordinates' from the map.

Delete a route point: Ctrl+Del

Insert a route point: Ctrl+Ins

- The route point will get a default name: 'RtePt' + Id
- All route points with default names will be renumbered when (other) route points are inserted/deleted.
- The route point will be set to 'Shape'. When saving the trip file, the first and last route point are automatically reset to 'Via'.
- The route point will get the GPS coordinates from the currently selected point on the map.

Moving a route point: Alt+Up, or Alt+Down

Moving multiple route points:

- Mark the lines to move, using Shift + Cursor keys, or Shift/Ctrl+Left mouse button.
- Cut the lines to the clipboard, using Ctrl+X.
- Select the line where the route points should be moved to, and Paste using Ctrl+V.

Deleting route points, looking up address and copying/cutting to clipboard support multi-selection.

Adding route points using the Map.

- Locate the point you want to insert on the map.
- You can use the Search button, or use Ctrl+Left mouse button.
- Select the route point where the new point should be inserted after.
- Click on the Plus button, or use Ctrl+Ins.

Updating the Address.

- Select the route points to update, or use CTRL+A to select all route points
- Click on the Lookup Address button.
- The requests will be throttled, meaning TripManager will issue no more request/second than specified.

Import route points from a GPX.

- Click on the GPX button, and choose Import. Open the GPX file.
- A dialog will be shown with the Waypoints and Routes found in the GPX. Check what to import.
- The newly created route points will be added after any existing route points.

Export route points to a GPX.

- Click on the GPX button, and choose Export.
- The saved GPX contains only route points. In BC you will need to recalculate.

GPX compatibility has been tested with BC and MRA, but other software should also work.

When saving a trip file the calculation will be cleared, to ensure that the next time the XT(2) will recalculate the trip. A MessageBox will appear to warn you.

The map will reflect the changes made, and connect the route points using straight magenta lines.

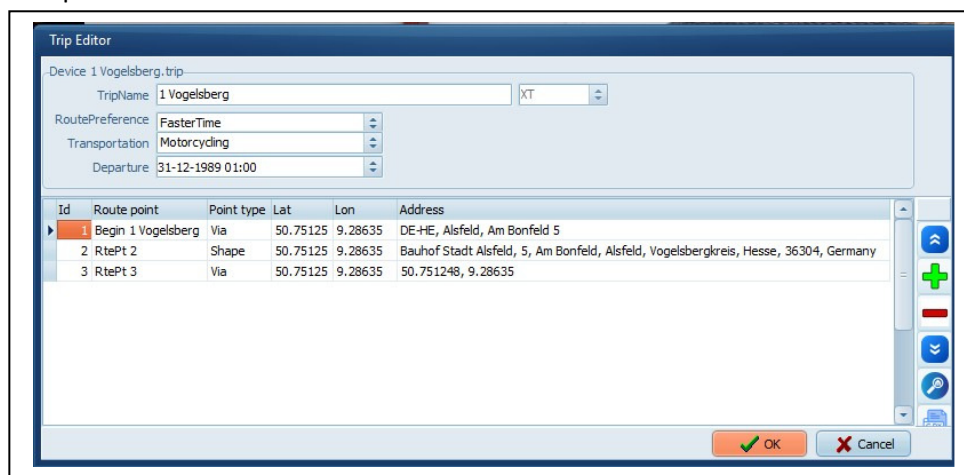
You can turn on/off zooming in on a selected route point using a checkbox at the bottom of the map.

Address format examples

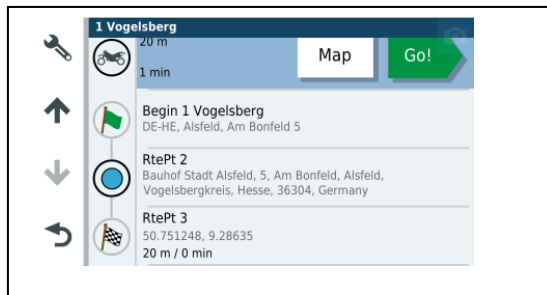
The setting 'Address format' controls how an address returned by GeoCode should be formatted. Here the same location is shown in 3 different formats.

1. The default TripManager setting
ISO3166-2-lvl4,state
village,town,city,municipality,hamlet
road+house_number
2. A special tag named: `display_name` showing all data.
3. A special tag named: `coords` showing only the GPS coordinates.

In Trip Editor:



On the XT:



The available tag names depend on the data that is available in OSM for a location. To view all tags available for a specific location use the special tag `debug`.

This will add a block with `*****Debug info*****`

