

TripManager V1.6

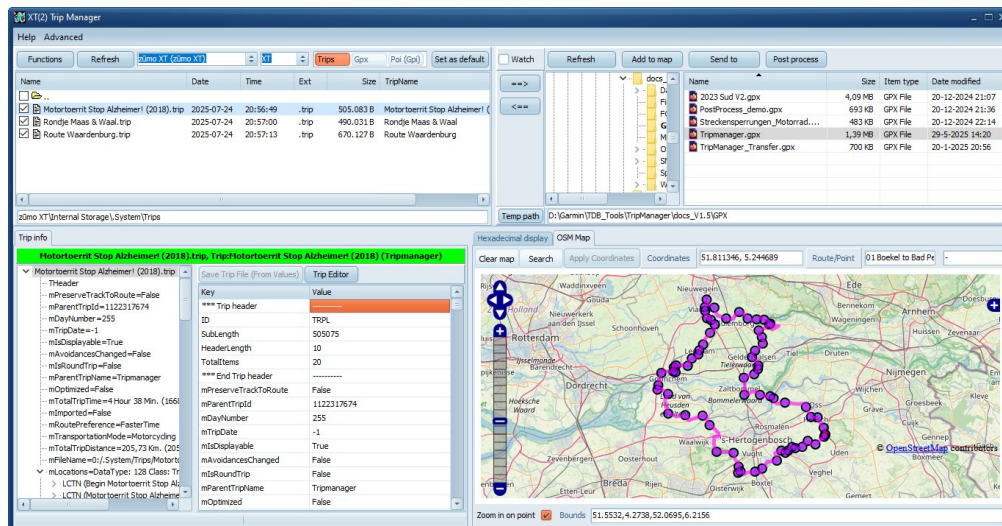
Fully supported models: zūmo XT, XT2 and Tread 2.

Limited: Generic Garmin (220, 660, 39x, 59x etc): GPX and GPI files. Edge: FIT files (Experimental)

Getting started

- Install the program via the installer. That will create a Desktop icon if requested.
- Make the **.system** folder visible on your zūmo.
- <https://www.zumouserforums.co.uk/app.php/ZXT-P84>
- Connect the zūmo, and wait for the device to appear in Windows Explorer.
- Start the program. If a supported device is connected it will be selected automatically.
- Starting with V1.5 TripManager detects connecting and disconnecting of the zūmo.

Overview



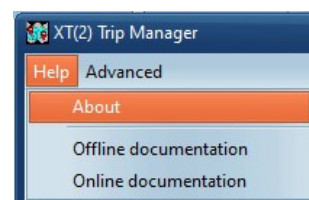
Help/About

Shows the Version.

Help/Online documentation

Opens a link to the offline documentation

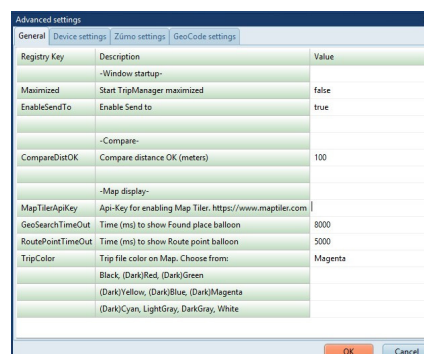
Open a link to the online documentation



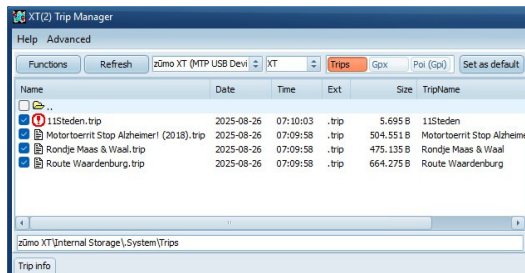
Advanced/Settings

Opens a dialog where you can view/edit TripManager settings.

Enabling GeoCoding needs to be done on the **GeoCode settings** tab where you should enter an Api_key.



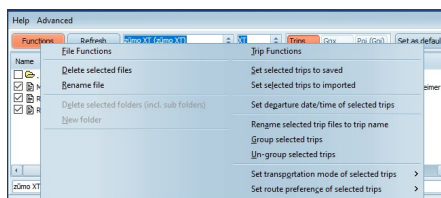
Device File list (Top Left)



Notes. In the **Trips** view:

- A checkbox shows if the trip is saved, or imported.
- An exclamation mark shows if a trip has been calculated. Uncalculated trips can trigger errors in Basecamp. See **14 Fixing invalid current.gpx**

Functions. Displays a submenu.



The functions **Delete** and **Rename** (on the left) are always enabled. **Delete selected folders** and **New folder** are only enabled if **EnableDirFuncs=true** on the **Device Settings**.

The functions on the right are only enabled if a .trip file is selected. See **Trip functions**.

Note: When deleting, or renaming, files TripManager checks the file extension. Only extensions **.trip**, **.gpx** and **.gpi** are considered safe.

Refresh. If no device connected, refreshes the list of available devices, else it refreshes the files.

Select an MTP device By default the program selects a supported device. **zūmo XT(2)**, **Tread 2** You can override that choice.

XT, XT2, Tread2, Edge, Garmin, Unknown For functions that create .trip files the program needs to know what your model is. It guesses that from the connected device. You can override that here.

Trips, Gpx, Poi(Gpi) The file list has 3 preset directories. You can use these buttons for fast switching.

Default locations: **Internal Storage\System\Trips**, **Internal Storage\GPX** and **Internal Storage\POI**

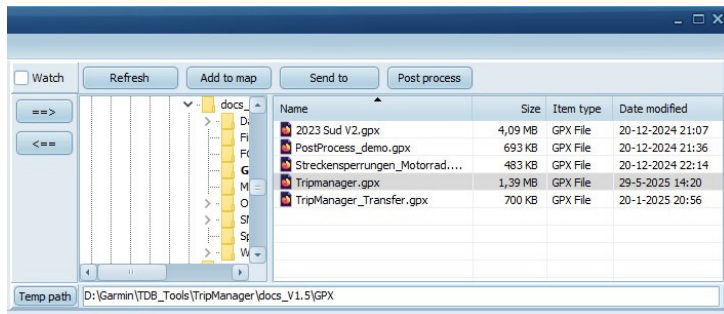
To change a preset setting, navigate to the directory and click: **Set as default**

At the bottom of the file list you see an edit box with the currently selected directory. You can copy and paste that in the Windows Explorer address bar. Also vice versa, but omit 'This Pc'.

Tips for use:

- To select all files in the file list use CTRL+A.
- Clicking on the column heading sorts the files.

Windows file list (Top right)



This tries to mimic the look of the Windows Explorer. But is limited of course. It only shows certain file types. GPX, TRIP, GPI, KML and HTML.

Tips for use:

- Use CTRL+A to select all files.
- Right click on a file shows a context menu. Where you can delete/rename files.
- Clicking on the column heading sorts the files.
- You can 'drag and drop' from Window Explorer to this window. If a directory is dropped it will open that directory. If a file is dropped, the **Post process** dialog pops up.
- The column widths and sorting is saved and restored the next startup.

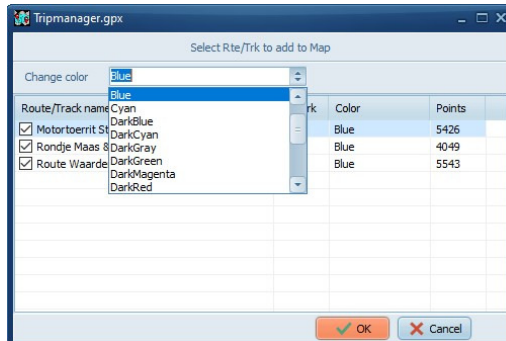
Note: It is possible to navigate to the (zūmo) device and list its files. But this is not its intended use. Keep the (zūmo) device files on the left, and Windows files on the right!

Buttons available:

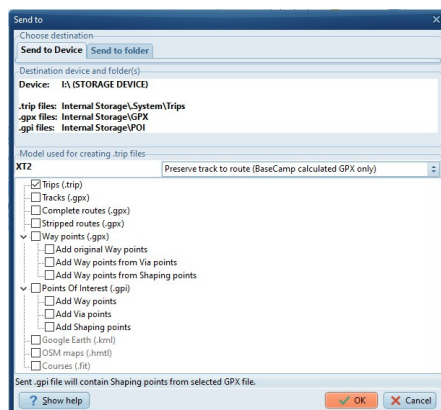
- ==>** Transfers selected files from the (zūmo) device to the (Windows) directory.
- <==** Transfers selected files from the (Windows) directory to the (zūmo) device.
- No logic is performed. But you may see warnings if files already exist, or the file type is considered unsafe.
- Temp path** To perform the functions on .trip files, show the OSM map, and for Sending to device, files are written to a temporary path. This button opens the Temp path used in a new window.
- Refresh** Obvious.

Buttons available only when one or more GPX files are selected:

Add to Map Shows the selected GPX on the OSM map (Bottom right) A dialog is shown where you can select the route/track from the GPX file, and change the color on the map.



Send to This button sends the file to either the device, or a Windows folder.



Send to takes one or more selected GPX files, converts them to the desired format, depending on the check marks ticked, and sends them either to the connected device, or a sub folder on Windows.

Use **Send to device** to transfer your routes/waypoints to your device. **Send to Folder** creates the same files, but saves them on a Windows Folder.

The GPX file should contain one or more calculated routes, or Waypoints (BaseCamp and MRA GPX V1.1 are tested)

Show help shows additional info, or see **6. Send to device**

Notes:

- If tracks need to be created, the 'Select from GPX' dialog pops up, where you can select the Routes/Tracks and the color they should get.
- In the middle section the locations are shown where the files will stored on the device. The selected model (XT, XT2 or Unknown) is shown on the line 'Trip files'. You can change the default model and directories on the main screen. For example if you want to store GPX files on the SDCard and not on the internal storage.
- Not available for Send to Device: .kml and .html
- Not available for Send to Folder: Complete routes.

Post process Not required, but can be helpful. Post processing can perform various functions on the GPX file. Typically you create a GPX file by exporting from Basecamp or MRA (GPX 1.1 Route + track). Use this function to process the GPX file before you transfer it to the device. It is recommended to import the file back in Basecamp to see what has changed.

Post processing parameters

Post processing a gpx file does this.

With routes:

- It clears the subclass field for Via and Shaping points. Prevents renaming on the XT
- It puts the Shaping points on the road, AKA unglitching

Optionally:

- It renames the Begin and End points and assigns symbols.
- It renames Shaping points to route name + Seq or route + Distance
- Lookup the address of Begin, End, Via and Shaping points and save it in <cmnt>.

with Way points:

Optionally:

- It assigns categories based on the GPX filename and the symbol used.
- Waypoints are listed by category on the XT
- Lookup the address and save it in <cmnt> and <address>

with Tracks:

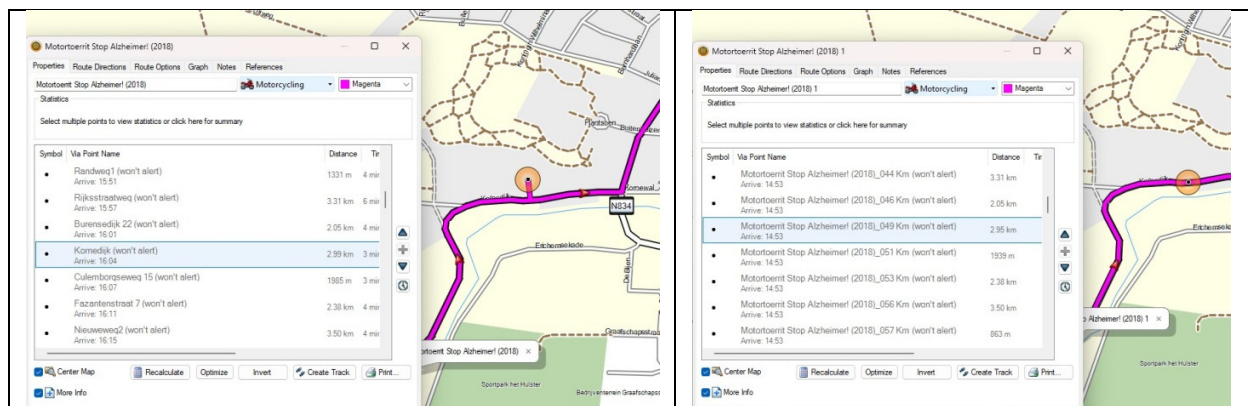
- It leaves them untouched. Tripmanager will create tracks automatically when transferred to the XT.

It saves the GPX 'in place'.

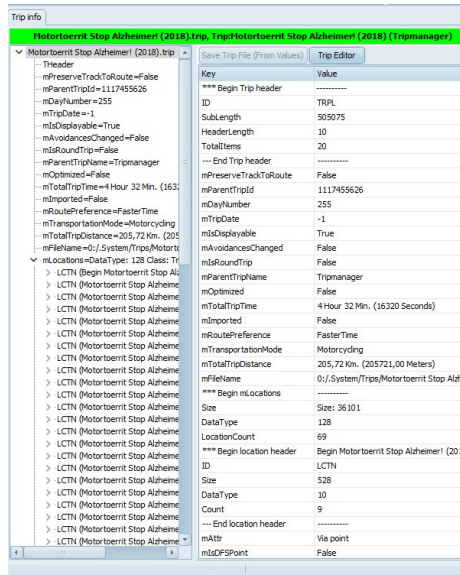
<input checked="" type="checkbox"/> Process Begin points	Begin	Flag, Red	<input checked="" type="checkbox"/> Lookup Address
<input checked="" type="checkbox"/> Process End points	End	Flag, Blue	<input checked="" type="checkbox"/> Lookup Address
<input checked="" type="checkbox"/> Process Way points	Not renamed	Symbol + GPX filename	<input checked="" type="checkbox"/> Lookup Address
<input checked="" type="checkbox"/> Process Via points	Not renamed	Not changed	<input checked="" type="checkbox"/> Lookup Address
<input checked="" type="checkbox"/> Process Shaping points	Route_Distance	Km	<input checked="" type="checkbox"/> Lookup Address

OK Cancel

Post processing example:



The Trip Window (Bottom Left)



Whenever you select a trip file, from the Device file list, or Windows file list, it is automatically loaded in the trip info. The file name and trip name is shown in a **Green** bar if it was loaded from the device, in **Aqua** if loaded from Windows.

If you make modifications and press 'Save Trip File' the trip file is saved from where it was loaded.

On the left you see a Tree view of all the data items in the trip. Selecting a node filters the grid.

In the grid you can modify all basic data types. The button 'Save Trip File' will be enabled. If you click on it you will get a prompt 'Saving the trip file will force recalculation. OK?'

Selecting a Node, or a line in the grid, will also update the Hexadecimal view and the Map view on the Bottom Right.

Buttons:

Save trip File (From Values)

Save the modifications in the grid to the trip file.

Trip Editor

Opens the trip in the Trip Editor. See **12. Using Trip Editor**

Some info on the items:

mImported: Set it to False to prevent RUT. This can also be done with the Trip function. (Top Left view)

mPreserveTrackToRoute:

This is true for a trip created from a track.

mParentTripId/mParentTripname:

All trips having the same values are shown grouped on the Trip planner. (Only for XT)

mRoutePreference

mTransportationMode: Corresponds with what you see on the device when you open a trip.

mLocations: Corresponds to Via and Shaping points used. The item **mAttr** defines Via or Shaping.

mAllRoutes: Contains the result of the calculation. TripManager is only able to view basic info, like road names and gps coordinates, or create a dummy node. This first time a trip with a dummy node is opened on the zūmo the trip is recalculated. Note that this recalculation appears to be relatively fast.

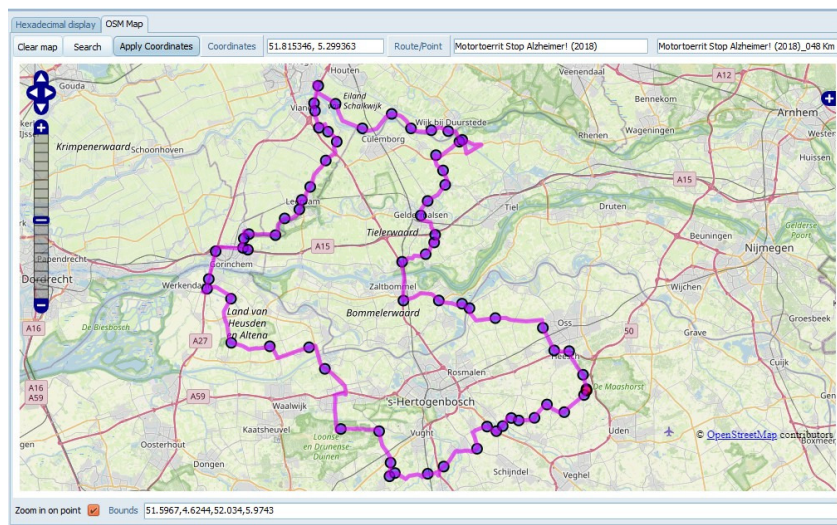
The Hex / OSM Window (Bottom Right)

Hexadecimal display	OSM Map
Save Trip File (from Hex)	
0x00170 7469 6D69 7465 6400 0000 0207 0009 0000	timed.....
0x00180 000E 6D54 6F74 616C 5472 6970 5469 6D65	..mTotalTripTime
0x00190 0000 0005 0300 002F 1A39 0000 0009 6D49m
0x001A0 6770 6F72 7465 6400 0000 0207 0009 0000	ported.....
0x001B0 0010 6D52 6F73 7465 6072 656E 6572 656E	..mRouteEffectiveness
0x001C0 6365 0000 0002 0100 0900 0000 136D 5472	ce.....mE
0x001D0 616E 7370 6F72 7461 7469 6F6E 4D6F 6465	anaportationMode
0x001E0 0000 0002 0109 0900 0000 126D 546F 7461mTot
0x001F0 6C54 7269 7044 6973 7461 6B63 6500 0000	..tripDistance...
0x00200 0504 484E 0800 0900 0000 096D 4669 6D65	..mM.....mFile
0x00210 4E61 6D65 0000 0083 0E00 8030 0000 003A	Name... ..0...
0x00220 0000 002F 0000 002E 0000 0053 0000 0079	.../.....S...
0x00230 0000 0073 0000 0074 0000 0065 0000 006D	...S.....e...
0x00240 0000 002F 0000 0054 0000 0072 0000 0069	.../.....S...
0x00250 0000 0070 0000 0073 0000 002F 0000 0031	...p...../...
0x00260 0000 0031 0000 0030 0000 0033 0000 0032	...I.....3...
0x00270 0000 0030 0000 0030 0000 0037 0000 0031	...0.....7...
0x00280 0000 0031 0000 002E 0000 0074 0000 0072	...I.....S...
0x00290 0000 0069 0000 0070 0000 0009 0000 000A	...I.....p.....

The Hex view is for getting more insight into a trip file.

The selection of the Hex view is synched with the Tree view, or grid. (On the left part)

It is possible to modify the file, and save it using the button 'Save Trip File'. Also on the device. NO recalculation is forced.



The OSM shows the selected trip. Shaping points are blue bullets, Via points are red. Lines between points are drawn in the color specified in settings. (default: Magenta) If the trip is calculated lines are drawn between UdbDir's and follow the road more precisely. If you select a Location, or an mUdbDataHndle a popup is shown on the map. You can add routes/tracks from a gpx to the map as an overlay, to compare the calculated trip with.

Tips:

- Hold, and move the left mouse button to position the map.
- Use the Mouse wheel to zoom.
- Use CTRL + Mouse wheel to change the font size.
- Use CTRL + Left Click to get the exact gps coordinates in the edit box.
- If you hover the mouse above a line, it shows the trip name in the edit box. If you hover the mouse above a blue/red point, it shows the via/shaping point name in the edit box.

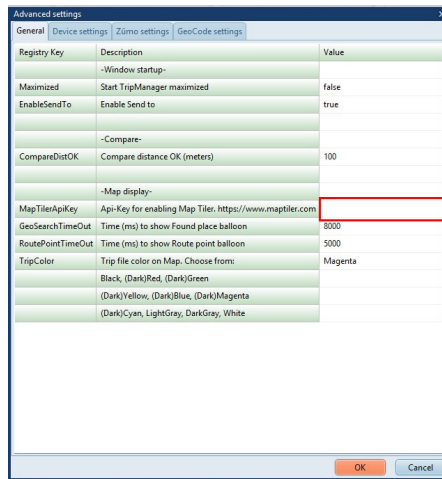
Buttons:

Clear Map: Remove All trips/GPX from the map.

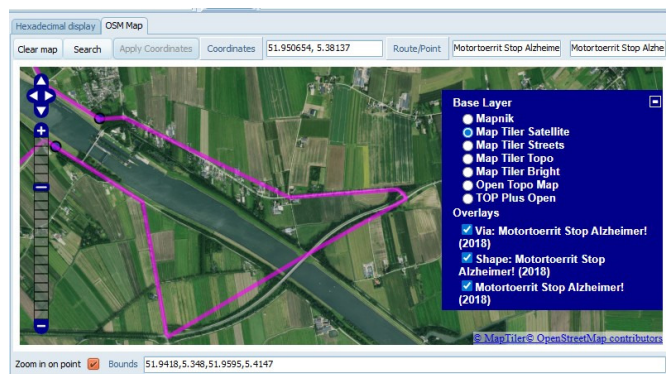
Search: Opens a dialog to search for places. See **11. Using GeoCode**

Apply coordinates: Enabled if a **mScnPosn** item is selected in the grid, or the **TripEditor** (See **12. Using TripEditor**) is active. Copies the currently selected coordinates from the map to the trip.

You can get an Api Key by registering at www.maptiler.com. Copy and paste that api key in Advanced settings at the line shown below.



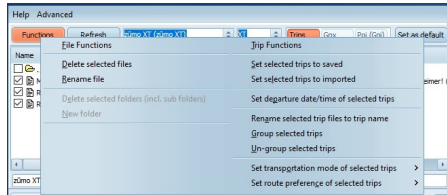
This will add more options in the Base layer, including a satellite view.



Notes:

- To use 'Open Topo Map' and 'TOP Plus Open' no registration is required.
- Maximum zoom level is not available in all parts of the world.
- Occasionally Map Tiler tiles remain white/magenta. This problem is still under investigation. If it happens reloading the tile usually resolves the problem.

Trip Functions

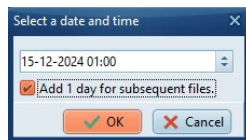


Set selected trips to saved/imported

To Prevent RUT. Saved trips (Fixed) are shown with a checkbox

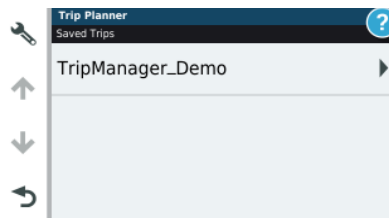
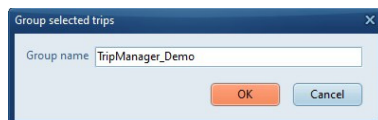
Set Departure date/time of selected trips

Can be used to sort the trips. Will show a dialog where you can select a date/time to use for the first trip. Optionally all subsequent trips get the next day.



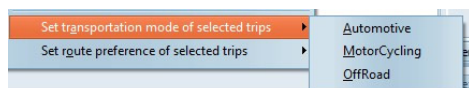
Rename selected trip files to trip name Normally all files are assigned a (meaningless) number as file name. This allows you to rename the files to the trip name.

Group/Ungroup selected trips You can use this to group trip files. EG group x trips from a multi-day trip.



Will result in a group name in the Trip Planner with a >. Click that to show the trips within.

Set transportation mode If you change this, it will force recalculation!



Set Route preference If you change this, it will force recalculation!

