

Instructions for the tool Osm2Tempomaster

With this tool it is possible to generate own data sets for the Android app TempoMaster. It works under all Windows versions (64-bit). For very large areas (for example, Germany complete), a memory of 16 GB is recommended. The folder "OSM2TempoMaster" must be stored in a place with full write permissions and sufficient space. At least 10 GB (better more) should be available for processing the DACH OSM files. The file "osm2tempomaster.exe" starts the tool.

All OSM files of type "*.osm" and "*.pbk" can be used as the source. Files in pbk format can also be downloaded directly with this tool. There are different providers. I can especially recommend a website:

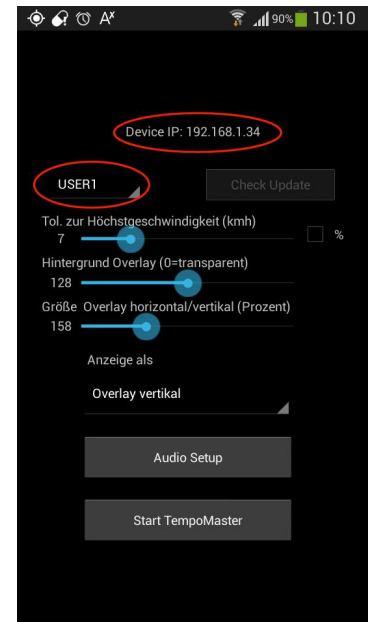
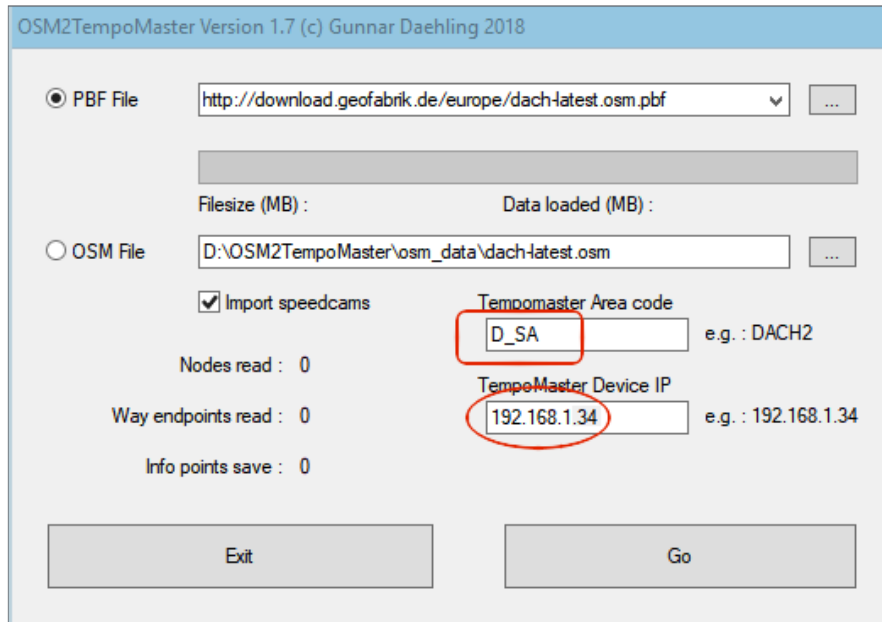
<https://download.geofabrik.de/>

There the data divided into areas offered for free download.

Settings for data transmission

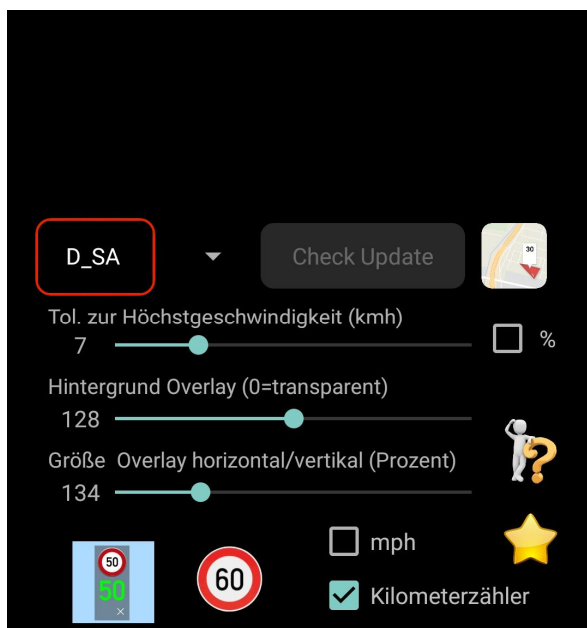
For easy transfer of data from the PC to the Android device, the two tools Osm2Tempomaster and Tempomaster have an integrated FTP function with which you can transfer the data over the network. For the transfer to work, first start both tools and go first into the setup menu of the Tempomaster. In the country selection, select **USER1 - USER5**. If the device is integrated in the network, the valid IP address is displayed. **If the Device IP is not displayed, Tempomaster must be stopped and restarted.** The device IP is then entered in Osm2Tempomaster (see screenshots). Afterwards Osm2Tempomaster must be restarted in any case. From the subsequent start, the stored data of the FTP connection will be used. So you do not have to be entered again.

Osm2 Tempomaster first checks if the Android device is available on the network. This may take some time for the tool to be ready. If the network connection does not exist, it will be displayed. You can still convert data anyway. These are just not transferred to the device. The data is stored in the directory **tempomaster_data**. From there they can also be transferred manually to the device. When starting the tool in this case, the note that Tempomaster is not available. After answering the question in the query menu you can also generate local (stored on the PC) data without FTP connection. Otherwise, the program is terminated.



Conversion of the data

In the field "Tempomaster area code" any 5-digit code can be entered. If you have done that (which I recommend), the data will be automatically moved after FTP transfer this data directory. If the data has been manually copied to the device, the movement is carried out the first time the Tempomaster setup menu is called up.



Once you have completed this preparation, you can start generating the data. First, the file to be imported is selected. The source files can be copied to the `osm_data` folder beforehand. The downloaded files are also stored in this folder. If the PBF option is selected and the associated entry begins with "http:" or "https:", the download is made from this address. Otherwise, the selected files will be converted. In the main directory there is a file `pbf.ini`.

In this text file frequently used download addresses can be entered with an editor. These entries can then be selected in the drop-down list.

This is followed by the conversion of the data and filtering out the elements needed for TempoMaster. Subsequently, the data is imported and saved in Tempomaster format. When the conversion is complete, it automatically transfers to the Android device. The transmission is displayed in the device. After completing this process, you can start the data immediately in the Tempomaster. The FTP connection terminates automatically.

It should be noted that the entire selected data folder (USER ...) of the Android device is completely overwritten. It is recommended to work with small areas in the first attempts to understand the function of the tool.

The time required for the complete operation depends on the download speed and of course on the available hardware.

Location on the Android device

For the manual transfer of the data one must first determine the storage locations of the data. There are two different storage locations that you can choose when you first start the app:

Internal SD card:

Folder path: /storage/**emulated/0**/Android/data/gd.tempomaster_pro/TempoMaster

Micro SD card:

Folder path: /storage/**extSDCard**/Android/data/gd.tempomaster_pro/TempoMaster

The red names can also be called differently depending on the device.

In the folder "TempoMaster" there are the folders of the individual countries. To manually copy the databases I recommend the app "Total Commander" (TC). It is available for free and with it you can do all the other file operations (for example unzipping). With the also free plugin "TotalDrip" you can also easily connect to DropBox.

For their own records, the folders **USER1 - USER5** are used. Only csv-files, the file **speedcam.dat** and possibly the file **area.ini** may be stored in these folders. If they are added to these folders, e.g. Copying the **version.dat** or **internet.dat** files will cause the app to malfunction. Starting the FTP function requires that these two files are missing.

OSM2Tempomaster generates the **osm_daten.zip** file in the **tempomaster_data** directory. I recommend unpacking this file to copy the device to any directory.

The TC can then be unpacked into one of the directories `USER1 - USER5`. Copying the individual files of the ZIP file to the device takes much longer.

Further instructions on OSM

Changing top speeds in the OSM map:

[http://www.g-daehling.de/tempomaster/en/Anleitung%20Edit%20OSM en.pdf](http://www.g-daehling.de/tempomaster/en/Anleitung%20Edit%20OSM%20en.pdf)

Data collection of speed data with a Dashcam:

<http://www.g-daehling.de/tempomaster/Anleitung%20Dashcam%20OSM.pdf>