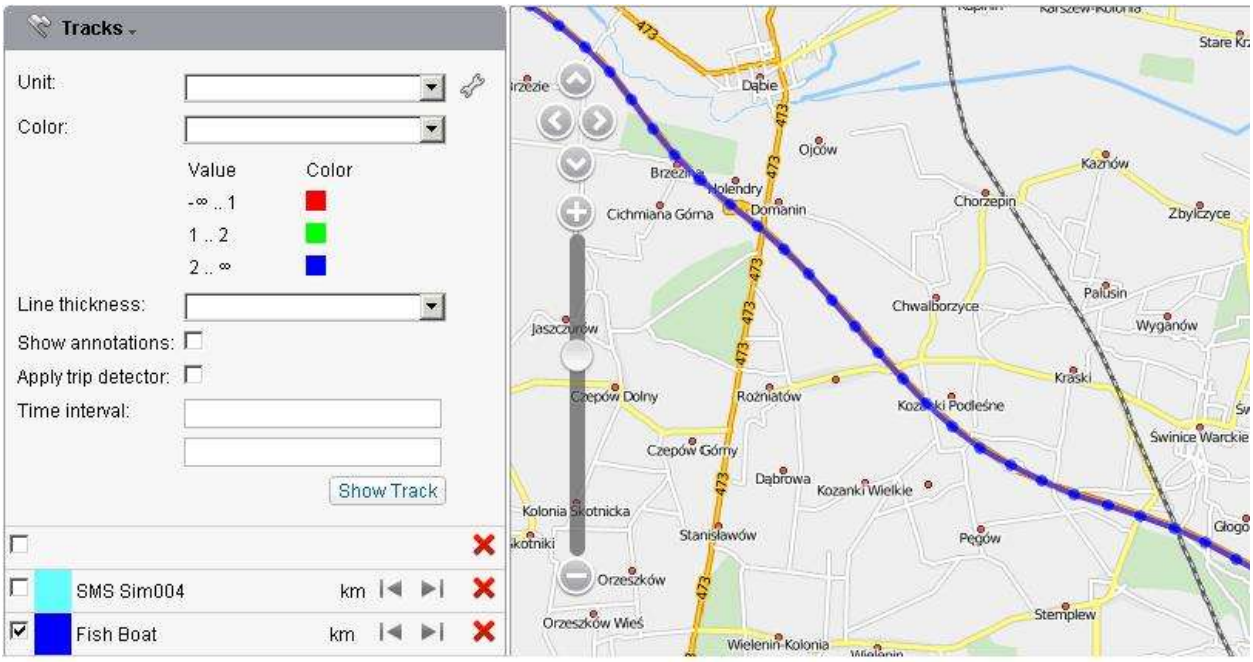
Tracks

A track is a line drawn on the map that shows how a unit moved during the indicated period of time. A track is mapped according to the points from where messages came. Each point stores also date and time when the message was received and other parameters at that moment e.g. speed

To view trip history in the map, switch to the Tracks panel.



How to Map a Track

1. First, select a **unit** in the drop-down list.
2. Select **color** for the track. It can be one-colored or multicolored (according speed or sensor values).
3. Indicate **track width** in pixels (track line thickness).
4. Indicate whether you want **annotations** to be displayed. Annotations are hints which are attached to each point of the track to show when (date and time) the message was received. On big zooms information about speed becomes also available. Annotations are rather informative but they make visual reception of track more complicated. That is why it is reasonable sometimes to switch them off.
5. **Trip detector** affects mileage and track visualization. For example, in places of stops and parkings there will be just one point instead of conglomeration of points, and the mileage will include just intervals detected as trips.
6. **Snap to road** option is used to lock units' location to existing roads when drawing a track.
7. Define the **interval** within which you want to get the data.
8. After filling in all fields, press **Show Track**. A point-to-point track built according to preset parameters will appear on the map.

If within the indicated period there was no messaged from unit, the button **Show Track** is not active.

If within the indicated period the unit was not moving there will be no track on the map, however it will be in the list of tracks below, and the distance traveled will be 0 km.

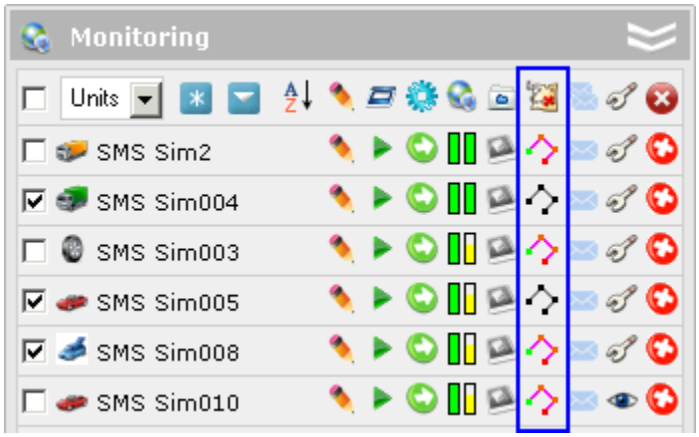
If it is too long to wait the track to appear on the map, it may mean you have indicated too large interval or your Internet access rate is low.

You can add tracks on any unit for any time interval. The list of tracks created will be displayed in the work area at the left. To prevent tracks merging, select different colors for them.

After you have drawn the track it is impossible to change its parameters (time, unit, color, annotations). In case of error, delete incorrect track and create a new one.

Fast Track Building

A track can be built with one click of a mouse, straight from the Monitoring panel. There is a special column named *Fast track building* which can be enabled in user settings. There you also specify the interval for fast track building: current day, last 24 hours, last complete day or other (manual mode).



When pressing the *Show track* button opposite a unit, a track of this unit appears on the map, and the button becomes dimmed. To remove the track from the map, press the same button again.

Many parameters for fast track building are borrowed from the Tracks panel: line width, annotations, trip detector, and snap to road option. In case of *manual mode*, the time interval should be also specified there. Track colors are set in unit properties (Advanced tab) or in the Tracks panel as well.

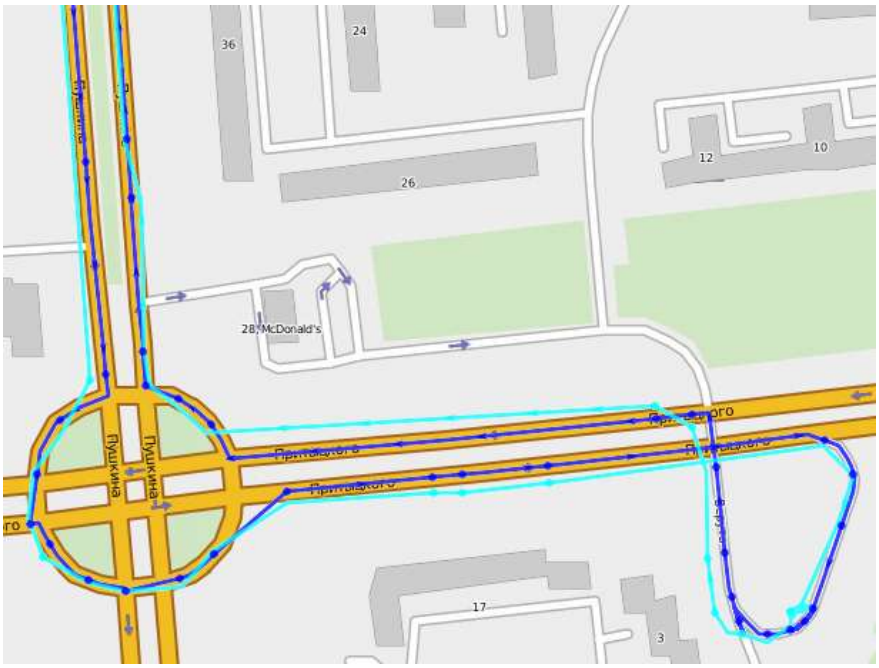
All fast-built tracks are displayed in the Tracks panel where you can manipulate them in the same was as usual tracks: enable/disable, delete, focus, apply hit test, etc.

Speed or Sensor Based Tracks

A track can be displayed in different colors depending on detected speed or sensor values registered on a segment of the track. This option is activated and adjusted in Unit Properties Advanced. If in unit configuration one of the options (*Speed based track colors* or *Sensor based track colors*) is selected and intervals and colors are set, then in the Tracks panel the palette becomes available. The palette can be changed only through unit properties dialog. If you have recently modified the color palette, new colors are applied after pressing the *Refresh* button.

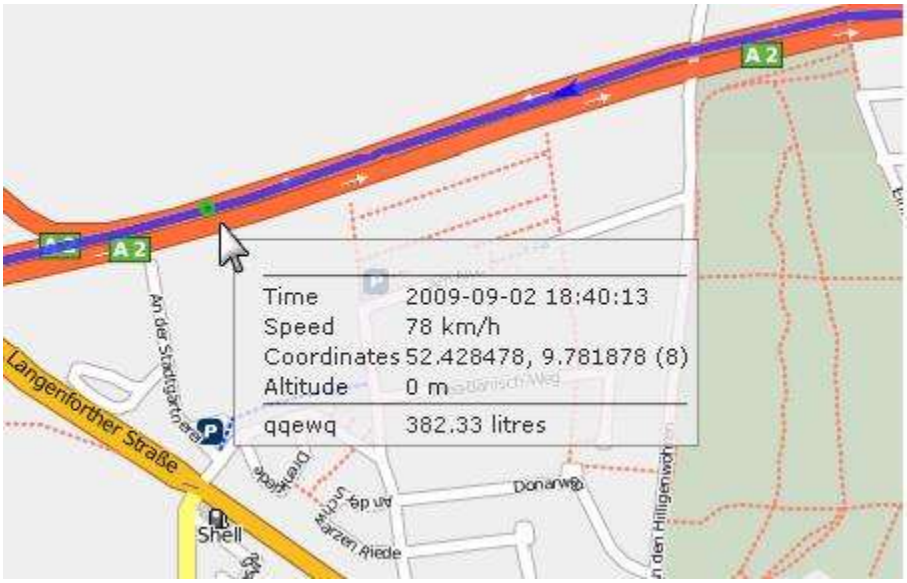
Snap to Road

If a unit is located near some road according to its coordinates in message, it is assumed that the unit is moving along the road in reality (there may be some inaccuracy in data sent). So, such points (messages) can be forcibly locked to road. It affects how the track looks and total distance traveled. Note that the functionality is implemented only for WebGIS maps, and roads are considered in the radius of 50 meters (164 feet).



Tracks Management

Hover the cursor over track to get accurate information about track point (i.e. points where messages were received from the unit). Points found are highlighted by small green circle, and a tooltip appears with the following information: time, speed, coordinated, altitude, sensor values and other included parameters.



Note
If a track is snapped to roads, some points may be located not exactly on the track.

You can manage tracks in the left part of the window under the "Map the track" button. It is possible to view all created tracks on the map simultaneously or select just certain track(s). The tracks marked with flags are displayed. Unmark a track to hide it.

In the tracks list there is also unit name and distance travelled during the preset period.

Use buttons:

to locate the initial position of the track;
to locate the final position of the track;
to adjust map zoom to track;
to remove track.

Note

- To view messages that form a track, go to the **Messages Mode**.

Invalid Tracks

When mapping a track you can get a dashed line that means that some track coordinates are doubtful. It may occur because of connection loss or other malfunction.