Comparison between current and fix (NIE map)

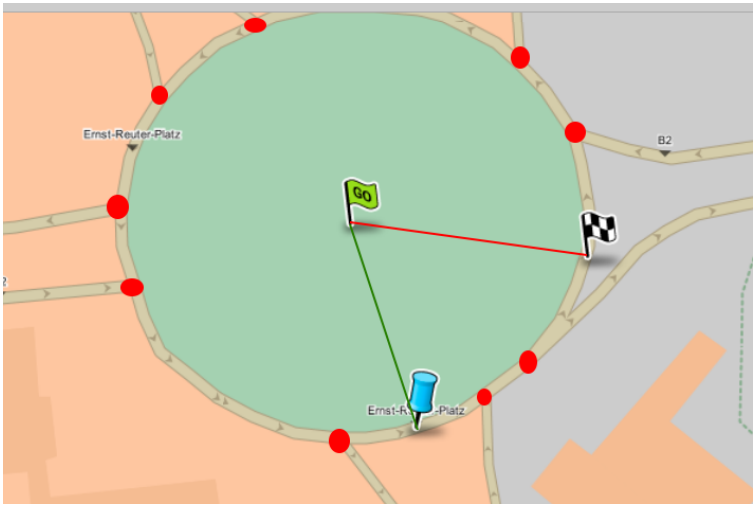
Solution Middle point between entry and exit

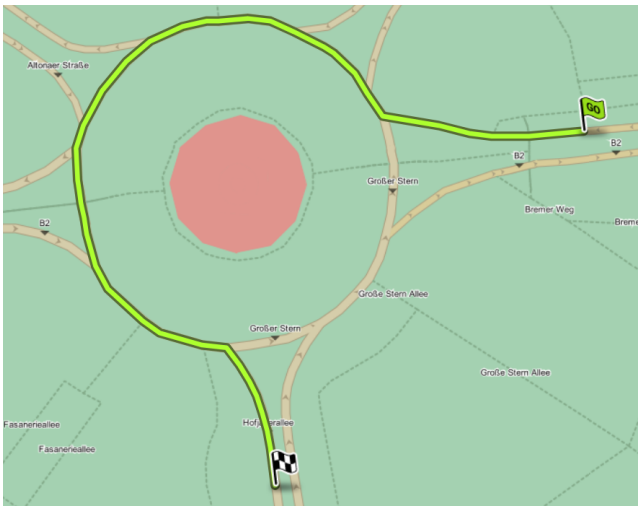
Solution description

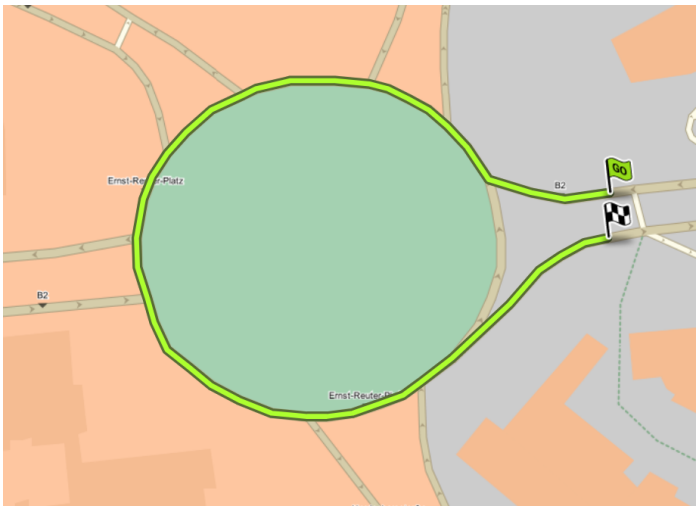
The angle is calculated between 3 points entry, exit and roundabout center.

Exit and entry points are the middle point on the roundabout between entry and exit.

Red dots are junctions entry/exit line connects to roundabout.



Opinion	Route	Picture	Before fix	After fix
Neutral	route		<nie:on_route_angle>**SharpLeft**</nie:on_route_angle>	<nie:on_route_angle>**Left**</nie:on_route_angle>

Neutral	route		<nie: off_route_angles>Straigh t, SlightRight, **Right**, SharpLeft</nie: off_route_angles>	<nie: off_route_angles>Straight, SlightRight, **SharpRight**, SharpLeft</nie: off_route_angles>
Improvem ent	route		<nie:on_route_angle>**Sh arpLeft**</nie: on_route_angle> <nie:off_route_angles>**St raight**, Right</nie: off_route_angles>	<nie:on_route_angle>**Sligh tLeft**</nie:on_route_angle> <nie:off_route_angles>**Slig htRight**, Right, **SharpLeft**< /nie:off_route_angles>
Neutral	route		<nie:on_route_angle>**Str aight**</nie: on_route_angle>	<nie:on_route_angle>**Sligh tLeft**</nie:on_route_angle>

Improvement	route		<nie:on_route_angle>**SharpLeft**</nie:on_route_angle> <nie:off_route_angles>Straight, **SlightRight**</nie:off_route_angles>	<nie:on_route_angle>**Back**</nie:on_route_angle> <nie:off_route_angles>Straight, **Right**, **Left**</nie:off_route_angles>

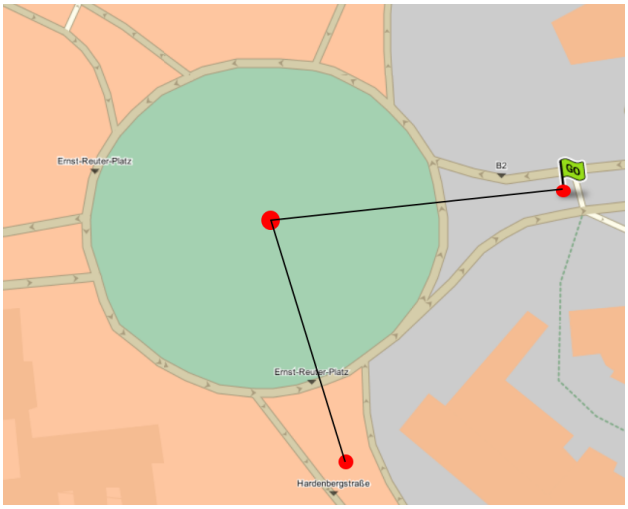
Solution Distant middle point between entry and exit

Solution description

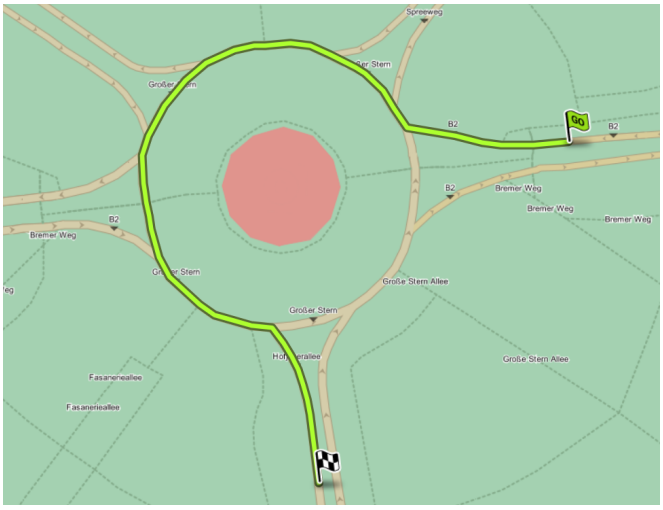
The angle is calculated between 3 points entry, exit and roundabout center.

Exit and entry points are the middle point between distant points on entry and exit.

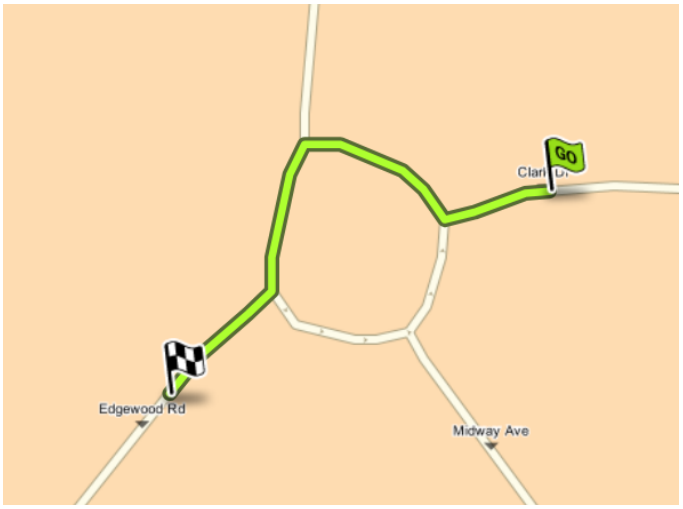
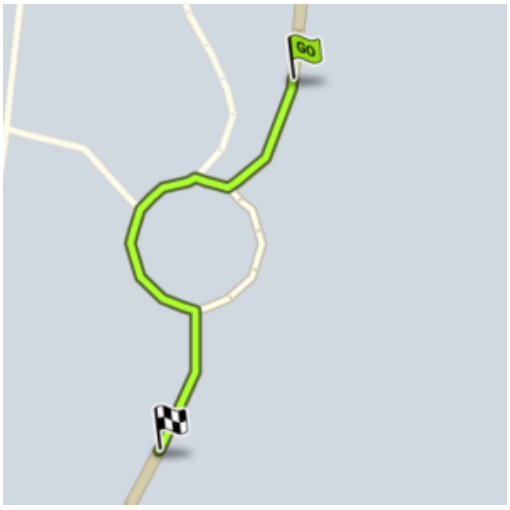
Example of such middle point.



Opinion	Route	Picture	Before fix	After fix

Improvement	route		<nie:on_route_angle> **SharpLeft**</nie: on_route_angle> <nie: off_route_angles>Straight, **SlightRight**</nie: off_route_angles>	<nie:on_route_angle> **Back**</nie: on_route_angle> <nie: off_route_angles>Straight, **Right**, **Left**</nie: off_route_angles>
Neutral	route		<nie:on_route_angle> **SharpLeft**</nie: on_route_angle>	<nie:on_route_angle> **Left**</nie: on_route_angle>
Improvement	route		<nie: off_route_angles>Straight, SlightRight, **Right**, **SharpLeft**</nie: off_route_angles>	<nie: off_route_angles>Straight, SlightRight, **SharpRight**, **Left**</nie: off_route_angles>

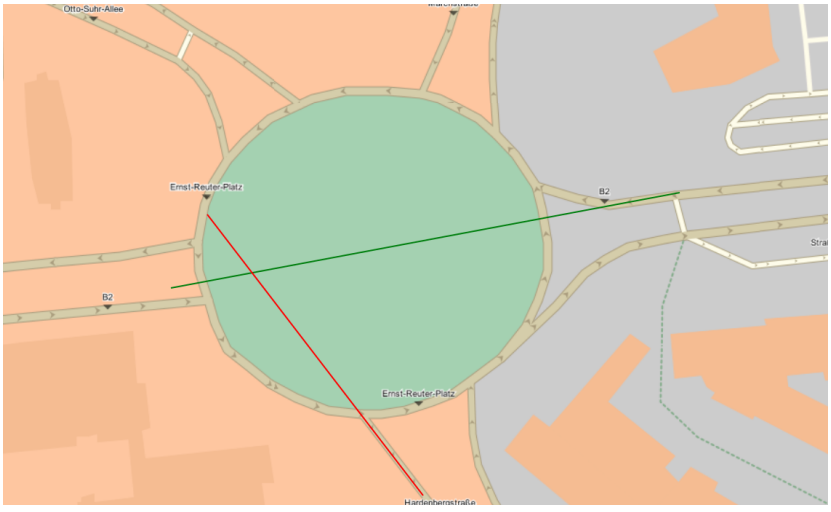
Improvement	route		<nie:on_route_angle> **SharpRight**</nie:on_route_angle> <nie:off_route_angles> **SlightRight**, Right, **SlightLeft**, **SharpLeft**</nie:off_route_angles>	<nie:on_route_angle> **Back**</nie:on_route_angle> <nie:off_route_angles>**Straight**, Right, **SharpRight**, **Left**</nie:off_route_angles>
Improvement	route		<nie:on_route_angle> **SharpLeft**</nie:on_route_angle> <nie:off_route_angles>Straight, Right</nie:off_route_angles>	<nie:on_route_angle> **Left**</nie:on_route_angle> <nie:off_route_angles>Straight, Right, **SharpLeft**</nie:off_route_angles>
Neutral	route		<nie:off_route_angles> **Right**, SharpRight, Left</nie:off_route_angles>	<nie:off_route_angles>**SlightRight**, SharpRight, Left</nie:off_route_angles>

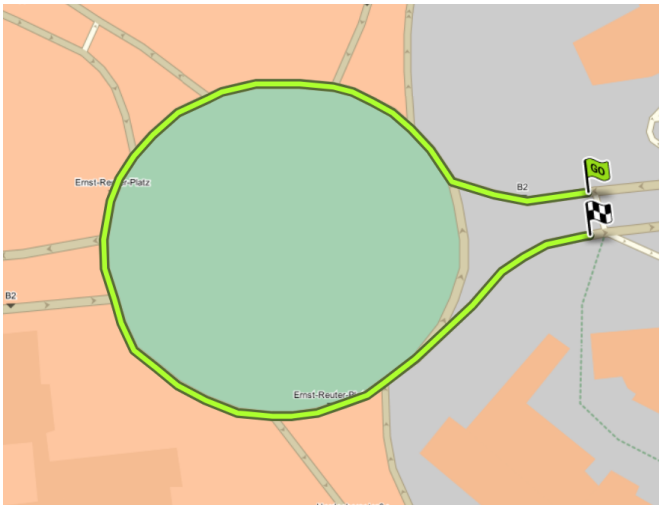
Improvement	route		<nie:off_route_angles> **SharpRight**, Left</nie:off_route_angles>	<nie:off_route_angles>**Right**, Left</nie:off_route_angles>
Neutral	route		<nie:on_route_angle> **Straight**</nie:on_route_angle>	<nie:on_route_angle> **SlightLeft**</nie:on_route_angle>

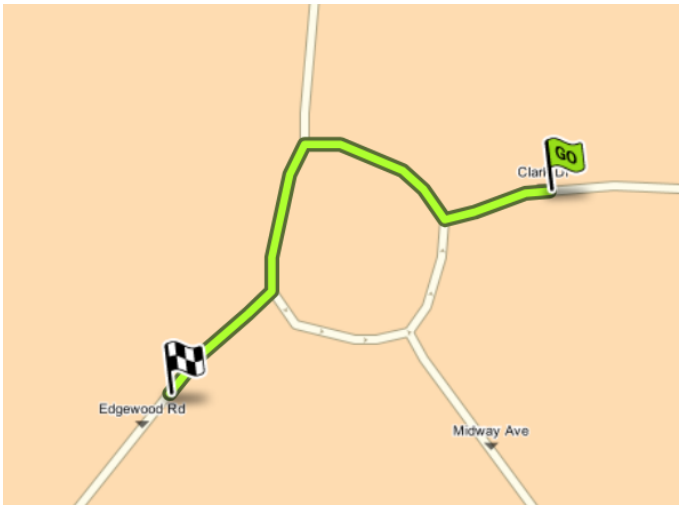
Calculate heading on distant points

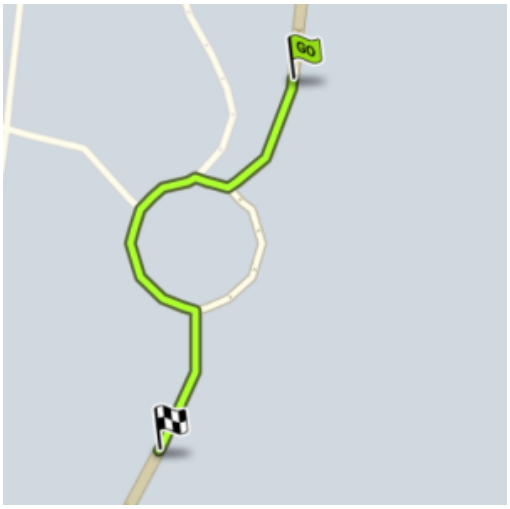
Solution description

It is kind of improving original solution but instead of calculating relative angle between entry and exit on arc base the distant point heading is used.



Opinion	Route	Picture	Solution Distant middle point between entry and exit	New fix
Neutral	route		<nie: off_route_angles>Straight, **Right**, Left</nie: off_route_angles>	<nie: off_route_angles>Straight, **SlightRight**, Left</nie: off_route_angles>
Improvement Such situation can also be fixed via de duplication **NAV-78876** - Getting issue details... STATUS	route		<nie: off_route_angles>SharpRight, SlightLeft</nie: off_route_angles>	<nie: off_route_angles>SharpRight, SlightLeft, **Left**</nie: off_route_angles>
Regression	route		<nie: off_route_angles>Straight, SlightRight, **SharpRight**, **Left**</nie: off_route_angles>	<nie: off_route_angles>Straight, SlightRight, **Right**, **SharpLeft**</nie: off_route_angles>

Regression	route		<nie:off_route_angles>**Straight**, Right, SharpRight, Left</nie:off_route_angles>	<nie:off_route_angles>**SlightRight**, Right, **SlightLeft**, **Sharp Left**</nie:off_route_angles>
Neutral	route		<nie:off_route_angles>**SlightRight**, **SharpRight**, Left</nie:off_route_angles>	<nie:off_route_angles>**Right**, **Left**</nie:off_route_angles>
Neutral	route		<nie:off_route_angles>Right, **Left**</nie:off_route_angles>	<nie:off_route_angles>Right, **Sharp Left**</nie:off_route_angles>

Neutral	**route**		<nie:on_route_angle>**SlightLeft**</nie:on_route_angle>	<nie:on_route_angle>**SlightRight**</nie:on_route_angle>