

Template:FMX640 Manual Geofence zones



[FMB640](#) has 100 configurable Geofence zones and it can generate an event when a defined Geofence zone border is crossed. *Frame border* is an additional border around the Geofence zone used to prevent false events when the object stops on the border of the area and as a result, records are made inside and outside the defined area because of GNSS errors. The event is generated only when both (Geofence and frame) borders are crossed. See figure to the right for details: the blue track is considered to have entered the area while the red track is not.

Shape can be a rectangle or a circle as defined by the user.

Priority of Geofence event is categorized into Low, High, or Panic levels. These levels define the priority of event information that is sent to the server. For more details about priorities look in [FMB640 I/O settings](#).

Generate event allows to choose when record will be generated.

Eventual records controls where scenario status value appears: when disabled it will exist in each AVL record and when enabled the value will be appended only to eventual records.

OverSpeeding helps to configure OverSpeeding scenarios separately for each different *Geozone*. Regular OverSpeeding and geozones' OverSpeeding function independently. If digital output control is enabled in a regular OverSpeeding scenario, geozones OverSpeeding scenario will control it too i.e when the device is in more than one geozone and OverSpeeding is detected in any zone then the digital output turns on. Digital output turns off only when OverSpeeding is not detected anywhere.

X1 is used to set geofence zone left bottom corner X coordinate (longitude) while *Y1* is used to set Y coordinate (latitude).

X2 or *R* are used to set accordingly geofence zone upper right corner X coordinate (longitude) when the Rectangular zone is used or circle radius when the Circular zone is used. *Y2* sets geofence zone upper right corner Y coordinate (latitude) for a Rectangular zone.

The screenshot displays the 'Manual geofence selection' interface. On the left is a vertical menu with various settings categories. The main panel is titled 'Manual geofence selection' and contains the following settings for '1 geozone':

- Manual geofence 1**
- Feature:** A grid with options: Disable, Low Priority, High Priority, Panic Priority.
- Generate Event:** A grid with options: On Exit, On Entrance, On Both.
- Eventual Records:** A grid with options: Disable, Enable.
- Shape Type:** A grid with options: Circle, Rectangle, Polygon.
- Radius:** 5
- Latitude (Y1):** 0,0
- Longitude (X1):** 0,0
- Max Allowed Speed (km/h):** 90

The map on the right shows a street intersection in Vilnius, Lithuania, with a yellow geofence zone overlaid on the streets. A blue track is shown crossing the zone, while a red track is not. The map includes a scale bar (10m, 50ft) and coordinates (54° 41' 12,04'' N, 25° 16' 47,81'' E).