

# FMC650 Manual Geofence zones

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[FMC650](#) 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 [FMC650 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 configuration interface for geofence zones. On the left is a navigation menu with options like SMS Events, GSM Operators, Features, Accelerometer Features, Auto Geofence, Manual Geofence Settings, Manual Geofence Zones (highlighted), Trip \ Odometer, Bluetooth, iButton List, I/O, LVCAN, FMS IO, Manual CAN IO, Tachograph Data, RS232 \ RS485, CAN \ Tachograph, ContiPressureCheck, Custom scenarios, Mobileye, and Reeler IO.

The main configuration area is titled "Manual geofence selection" and shows "1 geozone" selected. Below it, "Manual geofence 1" settings are visible:

Feature	Disable	Low Priority
	High Priority	Panic Priority
Generate Event	On Exit	On Entrance
	On Both	
Eventual Records	Disable	Enable
Shape Type	Circle	Rectangle
	Polygon	
Radius	5	
Latitude (Y1)	0,0	
Longitude (X1)	0,0	
Max Allowed Speed (km/h)	90	

The right side of the screenshot shows a map view of a street intersection in Vilnius, Lithuania. A yellow geofence zone is defined along "Gedimino pr." and "Jogailos g.". A blue track is shown crossing the zone, while a red track is shown not crossing it. The map includes a scale bar (10m / 50ft) and coordinates: 54° 41' 12,04" N, 25° 16' 47,81" E. The footer contains social media icons and the text "@ OpenStreetMap contributors".