

## I - Definition

We call a **goal** any geographical point the drone has to reach. It should be linked to a mission.

## II - Attributes

### II.1 - Definitions

A goal can have the following attributes:

- **order\_in\_mission**,  $i$  if the current goal is the  $i^{th}$ ,  $i \in \llbracket 0 : nbGoals \rrbracket$  step of the mission.
- **estimated\_battery\_level**, the estimated battery level of the drone when reaching the waypoint. It's a float, a percentage between 0 (no battery) and 100 (all batteries available).
- **goal\_location**, the GPS coordinates of the goal.
- **estimated\_arrival\_time**, the estimated time when the drone reach the goal location.
- **is\_reached**, if the goal was reached during the mission.

II.2 - Description

II.2.1 - Graphical representation

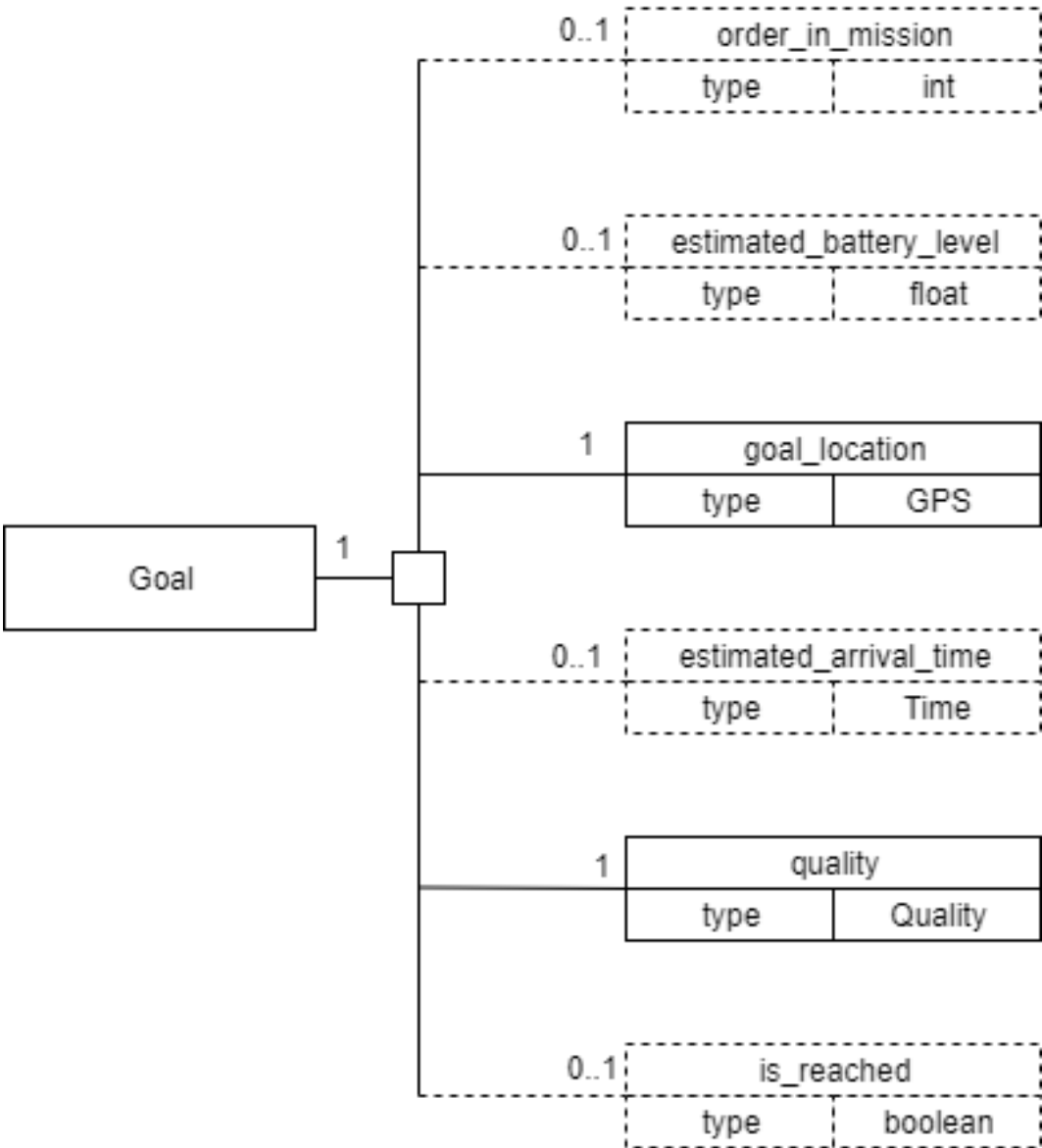


Figure 1: Graphical representation of a goal

## II.2.2 - Description table

Name	Type	Expected length	Optional	Significant
<i>order_in_mission</i>	int	-	Yes	2
<i>estimated_battery_level</i>	float	-	Yes	4
<i>goal_location</i>	GPS	-	No	1
<i>quality</i>	Quality	-	No	-
<i>estimated_arrival_time</i>	Time	-	Yes	3
<i>is_reached</i>	boolean	-	Yes	2

Table 1: Description table

## III - Examples

```
3 { "goal_id" : ObjectId("5bedacdee92e0f1838941fdf"),
4   "order_in_mission" : 2,
5   "estimated_battery_level" : 80,
6   "goal_location" : {"altitude" : 15.310,
7                     "latitude" : 048.452670,
8                     "longitude" : -001.6406853},
9   "quality" : 2,
10  "is_reached" : true}
```

Figure 2: Example of a goal in json