## I - Definition

We call an **mission** any set of instructions given to a drone (or any other device which can hold a sensor) to collect data. The constraints is given by the user, and the steps computed by the mission planner. We store only the output of the mission planning module. It should be linked to an intervention and a drone.

## II - Attributes

#### II.1 - Definitions

A mission can have the following attributes:

- was\_changed, if the mission was changed during the execution, because of some obstacle in the way.
- comments, comments about the mission.
- mission\_end\_time, when the last step of the mission is done, and the drone is back to the ground base.
- was\_finished, if the mission was finished. It could be false if the drone had to Return To Launch.
- moving\_duration, the duration the drone is moving during his mission.
- payload\_weight, the payload weight in kilograms.
- pilot\_name, the name of the pilot if there is one. If the mission is an autonomous flight, the field can be filled with "auto".
- flight\_scenario, the flight scenario describes the type of area the drone is flying over. It could be one of the following string: "S1", "S2", "S3", "S4".
- mission\_start\_time, when the drone leaves the base to start his mission, e.g. reach the first step.
- type\_of\_mission, the type of mission.

## II.2 - Description

## II.2.1 - Graphical representation

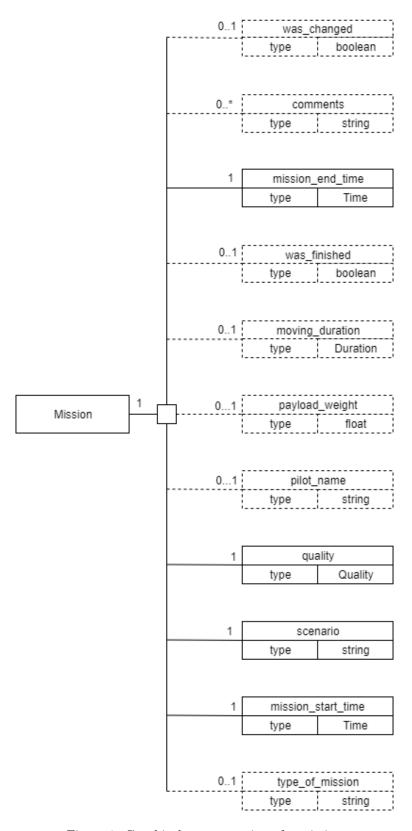


Figure 1: Graphical representation of a mission

### II.2.2 - Description table

Name	Type	Expected length	Optional	Significant
$was\_changed$	boolean	-	Yes	3
comments	string	200	Yes	4
$mission\_end\_time$	Time	-	No	1
was_finished	boolean	-	Yes	3
$moving\_duration$	Duration	-	Yes	3
$payload\_weight$	string	-	Yes	2
$pilot\_name$	string	-	Yes	3
quality	Quality	-	No	-
scenario	string	-	No	1
$mission\_start\_time$	Time	-	No	1
type_of_mission	string	~30	Yes	2

Table 1: Description table

# III - Examples

```
□{ "mission_id" : ObjectId("5bedabbce92e0f1838941fce"),
       "was_changed" : false,
 4
 5
       "comments": "Third goal far from the original objective",
       "mission end time": "2019-05-02T17:05:56,000+02:00",
 6
       "was finished" : false,,
       "moving_duration" : "POYOMODTOH19M53,254S",
"payload_weight" : 2.3,
 8
 9
       "pilot_name" : "Olivier",
10
       "quality" : 2,
"scenario" : "S1",
11
12
       "mission start time" : "2019-05-02T16:36:52,154+02:00",
13
14
       "type_of_mission" : "building recognition"}
```

Figure 2: Example of a mission in json