

API Reference

Simulator API

API Version: 1.0

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API

1. SCENARIOCONTROLLER

Endpoint for controlling the simulation

1.1 GET /simulator

Get status of simulation

Returns the information of the simulation or null

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful response

RESPONSE MODEL - application/json

```
{
  id                string          ID of scenario
  trafficLights [{
    Array of object: Collection of all the traffic lights we want to simulate
    id              string          ID of the traffic light
    position        integer         >=0
                                The position of the traffic light
    scanDistance    integer         >=10
                                The scan distance of the traffic light
    entryDelay      integer         >=0
                                The entry delay in ms after when the first state change should be triggered
    stateHoldSeconds integer         >=1
                                How long a state holds in seconds
    stateHoldInMs   integer
  }]
  cars [{
    Array of object: Collection of all the cars we want to simulate
    vin             string          The vin of the car
    oem             string          The oem of the car
    model           string          The model of the car
    entryTime       integer         >=0
                                After how many ms the car should enter the scene
    speed           integer         >=0
                                The speed of the car
    location        integer         >=0
                                The start location of the car
    destination     integer         >=0
                                The desired destination of the car
  }]
  scenarioLength    integer         The length of the scenario in meters
  timelapse         boolean         Whether the simulation should be run in timelapse mode or not
  done              boolean         Boolean flag to indicate if the simulation is completed or not
}
```

1.2 POST /simulator

Get status of simulation

Returns the information of the simulation or null

REQUEST

REQUEST BODY - application/json

```
{
  id                string      ID of scenario
  trafficLights [{
    Array of object: Collection of all the traffic lights we want to simulate
    id              string      ID of the traffic light
    position         integer     >=0
                                The position of the traffic light
    scanDistance     integer     >=10
                                The scan distance of the traffic light
    entryDelay       integer     >=0
                                The entry delay in ms after when the first state change should be triggered
    stateHoldSeconds integer     >=1
                                How long a state holds in seconds
    stateHoldInMs    integer
  }]
  cars [{
    Array of object: Collection of all the cars we want to simulate
    vin              string      The vin of the car
    oem               string      The oem of the car
    model             string      The model of the car
    entryTime         integer     >=0
                                After how many ms the car should enter the scene
    speed             integer     >=0
                                The speed of the car
    location           integer     >=0
                                The start location of the car
    destination        integer     >=0
                                The desired destination of the car
  }]
  scenarioLength     integer     The length of the scenario in meters
  timelapse          boolean     Whether the simulation should be run in timelapse mode or not
  done               boolean     Boolean flag to indicate if the simulation is completed or not
}
```

RESPONSE

STATUS CODE - 201: Successful response

STATUS CODE - 400: Validation error, see error message for more information

1.3 DELETE /simulator

Stops the simulation

Stops an active simulation and makes sure the other services return to an pre simulation state

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful response
