

API Documentation - R5 (MEC-based)

This section contains the API documentation related to release 5 of this blueprint.

The API information of this blueprint is as follows:

Kalman filter model API information			
Model	Parameter type	Parameter name	Description of parameter
Kalman filter	Inputs	vehicleid	the unique identifier of a vehicle.
		time	current timestamp 't'.
		longitude	Geographic coordinate that specifies the east–west position of a vehicle on the Earth's surface.
		latitude	Geographic coordinate that specifies the north–south position of a point on the Earth's surface.
		angle	Angle 0-359.99 to approximate the direction of a vehicle.
		speed	Speed of the vehicle at time 't'.
		lane	Lane number on which the vehicle is running.
		pos	Position of vehicle on which the vehicle is running on.
	Outputs	longitude	Predicted longitude.
		latitude	Predicted latitude.
Note: The API has been developed and its (Docker) process is available for download/pull at the link .			

The steps to start the API server that

1. Clone the code from the repository (if you haven't cloned it before). Link: [pred-vanet-mec - gerrit.akraino.org](#):

```
git clone "https://gerrit.akraino.org/r/pred-vanet-mec"
```

2. Run the following command to start the API-server:

```
docker run mehmoodasif/NAME-OF-API-SERVER -p HOST-PORT-NUMBER:CONTAINER-PORT-NUMBER
# OR
python NAME-OF-API-SERVER.py --port PORT-NUMBER
```