

Hafas Journey Planner

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LiveMap-API

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0 Version History

Date	Name	Changes
2012-06-06	Tobias Päsler/HaCon	Initial Version

1 Introduction

This document describes an Api – call which returns the positions of all vehicles in a given bounding box.

The result can be used to display the realtime position of the vehicles on a map. The format of the result is JSON.

2 Request

The URL which has to be called in order to retrieve the positions of the vehicles looks as follows:

`http://<your cgi-bin path>/help.exe/eny?tpl=livemap&L=vs_livemap&minx=<int>&maxx=<int>&miny=<int>&maxy=<int>&onlyRealtime=<yes or no>`

The following table describes the parameters which have to be set by the user. The parameters “tpl” and “L” should not be changed (changing them would return no or an invalid result).

Parameter	Description
minx	Left border (longitude) of the bounding box in WGS84 * 1000000
maxx	Right border (longitude) of the bounding box in WGS84 * 1000000
miny	Lower border (latitude) of the bounding box in WGS84 * 1000000
maxy	Upper border (latitude) of the bounding box in WGS84 * 1000000
onlyRealtime	Can be used to define whether all vehicles should be returned or only those vehicles which have realtime information. If it is set to “yes”, only vehicles with realtime information are returned, if it’s set to “no”, all vehicles in the bounding box are returned.

Example request:

`http://reseplanerare.vasttrafik.se/bin/help.exe/eny?tpl=livemap&L=vs_livemap&minx=11863889&maxx=12037610&miny=57653097&maxy=57745560&onlyRealtime=yes`

3 Result

The result of the request will return a JSON formatted array of vehicle positions. The positions are either based on realtime data or, if not available, on planned timetable data.

A (shortened) example result looks as follows:

```
{
  "livemap": {
    "vehicles": [
      {
        "x": "11954385",
        "y": "57720743",
        "name": "Buss 19",
        "gid": "9015014501900739",
        "lcolor": "#102d64",
        "bcolor": "#dcd135",
        "direction": "26",
        "prodclass": "BUS",
        "delay": "2"
      }, {
        "x": "11964633",
        "y": "57705937",
        "name": "Spårvagn 6",
        "gid": "9015014500600059",
        "lcolor": "#fa8719",
        "bcolor": "#00abe5",
        "direction": "19",
        "prodclass": "TRAM",
        "delay": "2"
      }
    ],
    "time": "13:00:24",
    "minx": "11863889",
    "maxx": "12037610",
    "miny": "57653097",
    "maxy": "57745560"
  }
}
```

The single elements of the result are described in the table below:

Element	Description
Livemap	Root element of the result
vehicles	Array of vehicles
vehicles/x	X coordinate (longitude) of the position in WGS84 * 1000000
vehicles/y	X coordinate (latitude) of the position in WGS84 * 1000000

vehicles/name	Journey name
vehicles/gid	Service GID
vehicles/lcolor	Linecolor of the journey
vehicles/bcolor	Backgroundcolor of the journey
vehicles/direction	Direction of the vehicle. This is a value between 0 and 31 which is describing a direction vector (see image1).
vehicles/prodclass	Product class (according to the product classes in the ReST-API). Valid values are VAS, LDT (Long Distance Train), REG (Regional train), BUS , BOAT, TRAM, TAXI (Taxi/Telebus).
vehicles/delay	Current delay of the vehicle in minutes, can be negative, zero or positive.
time	Current server time.
minx	Left border (longitude) of the requested bounding box in WGS84 * 1000000
maxx	Right border (longitude) of the requested bounding box in WGS84 * 1000000
miny	Lower border (latitude) of the requested bounding box in WGS84 * 1000000
maxy	Upper border (latitude) of the requested bounding box in WGS84 * 1000000

Image 1: Meaning of the direction element

