

Network description

Network Description API refers to any information about the network.

- **Stops by line**

The operation returns a list of the consecutive stops for a specific line that the vehicle passes by during its journey. This information is provided in both directions (return journey) and at a specific time. This dataset includes the following information:

- line number;
- destinations;
- the list of all served stops.

Endpoint	https://opendata-api.stib-mivb.be/NetworkDescription/1.0/PointByLine/{line id's}
Method	GET
MimeType	application/json
Arguments	a comma separated list of line ids (a.k.a. route ids), maximum 10 ids are allowed in the list
Returned value	an array of "lines". Every line item contains two directions. Every direction returns a list of points ids (a.k.a stop ids) where the vehicle passes by.

1. Sample of a request using Curl

```
> curl -k -X GET --header "Accept: application/json" --header "Authorization: Bearer 30ca85ad55a0e3847728653e149e39a5" https://opendata-api.stib-mivb.be/NetworkDescription/1.0/PointByLine/1
```

2. Sample of a request using JQuery

```
url: me.openDataBaseUrl + '/NetworkDescription/1.0/PointByLine/' + item.join("%2C"), // item is an array of id's, joined to get a comma separated list
type: 'GET',
error: function (jqXHR, textStatus)
    { // process error
    },
beforeSend: function setHeader(xhr) { xhr.setRequestHeader('Accept', 'application/json'); xhr.setRequestHeader('Authorization', 'Bearer ' + me.apiToken);
},
success: function (data) {
    // process the result here
    console.log('points By Line : ' + data);
},
})// end of $.ajax({
```

3. Sample of the returned value

```
{
  "lines":[
    {
      "destination":[
        {
          "fr":"Stockel",
          "nl":"Stockel"
        }
      ],
      "direction":"Suburb",
      "lineId":[
        {
          "id":"1"
        }
      ],
      "points":[
        {
          "id":"8733",
          "order":"0"
        },
        {
          (...)
        },
        {
          "id":"8161",
          "order":"21"
        }
      ]
    },
    {
      "destination":[
        {
          "fr":"GARE DE L'OUEST",
          "nl":"WESTSTATION"
        }
      ],
      "direction":"City",
      "lineId":[
        {
          "id":"1"
        }
      ],
      "points":[
        {
          "id":"8161",
          "order":"0"
        },
        {
          (...)
        },
        {
          "id":"8733",
          "order":"21"
        }
      ]
    }
  ]
}
```

4. **Comments:**

- a. The line names are provided in Dutch and French.
- b. The field's order refers to the order of the stops where the vehicle passes by on a route of a line in a specific direction (for example: if the order is 0 then the stop is the first point of departure of that journey).
- c. The direction value can be either "Suburb" or "City".
- d. The journey pattern is not changing constantly so it is not necessary to poll the service at a high frequency.
- e. It is recommended that you cache the data in your application for at least 1 day.
- f. The API throttling is limited to 10 requests.