

Operation Monitoring

Operation Monitoring API refers to any operation dealing with real-time information.

- **Message by line**

The operation returns messages related to the stops of a specific line(s) passed in the parameters. This dataset contains:

- Traffic information about planned works (for example: planned engineering works)
- Event (for example: European summit, etc.)
- Unforeseen real-time disruptions (for example: disruption because of an accident)
- Important corporate messages (for example: STIB-MIVB recruiting event such as job day)

In case of real-time disruptions, there will be a second message when the interruption is finished and the line is working normally again. These messages do not contain dates in the text itself.

Endpoint	https://opendata-api.stib-mivb.be/OperationMonitoring/4.0/MessageByLine/{line ids}
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 "messages" containing the info of line ids & stop ids related to the message

1. Sample of a request using Curl

```
> curl -k -X GET --header "Accept: application/json" --header "Authorization: Bearer  
Replace_this_text_by_your_token" https://opendata-api.stib-  
mivb.be/OperationMonitoring/4.0/MessageByLine/1
```

2. Sample of a request using JQuery

```
var me = this;  
  
// get Vehicle  
Positions $.ajax({  
  url: me.openDataBaseUrl + '/OperationMonitoring/4.0/  
    MessageByLine/' + me.lineId,  
  type: 'GET',  
  error: function (jqXHR, textStatus)  
    { // process error  
  },  
  beforeSend: function setHeader(xhr) {  
    xhr.setRequestHeader('Accept', 'application/json');  
    xhr.setRequestHeader('Authorization', 'Bearer ' + me.apiToken);  
  // add the api token here  
  },  
  success: function (data) {  
    // process the result here  
    console.log('vehiclePosition: ' + data);  
  },  
}); // end of $.ajax({
```

3. Sample of the returned value

```
{
  "messages": [
    {
      "content": [
        {
          "text": [
            {
              "en": "Works at the end of the platform at De Brouckère. If you alight there, get on at the front of the vehicle.",
              "fr": "Travaux à l'arrière du quai à De Brouckère. Si vous descendez à cette station, embarquez à l'avant du métro. Merci.",
              "nl": "Werken aan de achterkant van het perron in De Brouckère. Indien u daar uitstapt, stap vooraan in de metro. Dank u."
            }
          ],
          "type": "Description"
        }
      ],
      "lines": [
        {
          "id": "1"
        }
      ],
      "points": [
        {
          "id": "8161"
        },
        {
          "id": "8151"
        }
      ],
      "priority": 5,
      "type": "LongText"
    }
  ]
}
```

4. Comments:

- a. All the messages are available at least in French and Dutch, some messages are available in English.
- b. The root type "LongText" indicates that this message has no characters limitation.
- c. The list of ids inside points refer to the stops impacted by the message (one message may belong to multiple stops).
 - d. The priority field refers to the level of importance of a message (currently it is always 5, soon it will be set according to the importance of the message)
- e. A message does not have a defined validity period because it depends on real-time events. The messages are not changing constantly so it is not necessary to poll the service at a high frequency.
- f. It is recommended that you cache the messages on your application for a short period (for example: between 5 to 10 minutes)

