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:

- o Traffic information about planned works (for example: planned engineering works)
- o Event (for example: European summit, etc.)
- o Unforeseen real-time disruptions (for example: disruption because of an accident)
- o 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/2.0/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 30ca85ad55a0e3847728653e149e39a5" https://opendata-api.stib-mivb.be/OperationMonitoring/2.0/MessageByLine/1

2. *Sample of a request using JQuery*

```
    url: me.openDataBaseUrl + '/OperationMonitoring/2.0/
    MessageByLine/' + 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( 'Message by line: ' +data );
    },
  })// end of $.ajax({
```

3. *Sample of the returned value*

```json
{
  "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)

- **Message by stop**

The operation returns messages related to the stop id(s) passed in the parameters. This dataset contains:

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

These short messages are perfect for a ticker or any other medium that limits your number of characters. Watch for the dates: messages about planned works will be shown in advance and contain the dates of the interruption in the message itself.

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/2.0/MessageByPoint/{point ids}
Method	GET
MimeType	application/json
Arguments	a comma separated list of Point ids (a.k.a. Stop ids), maximum 10 ids are allowed in the list
Returned value	an array of "messages" containing the info of stop ids related to the message

5. *Sample of a request using Curl*

➢ curl -k -X GET --header "Accept: application/json" --header "Authorization: Bearer 30ca85ad55a0e3847728653e149e39a5" https://opendata-api.stib-mivb.be/OperationMonitoring/2.0/MessageByPoint/8011

6. *Sample of a request using JQuery*

```
    url: me.openDataBaseUrl + '/OperationMonitoring/2.0/
    MessageByPoint/' + 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( 'Message by point: '+data );
    },
 })// end of $.ajax({
```

7. *Sample of the returned value*

```json
{
  "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"
        }
      ],
      "points": [
        {
          "id": "8161"
        },
        {
          "id": "8151"
        }
      ],
      "priority": 5,
      "type": "ShortText"
    }
  }
}
```

8. *Comments:*

a. All the messages are available at least in French and Dutch, some messages are available in English.

b. The root type "ShortText" indicates that this message has characters limitation up to 120.

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: 5 to 10 minutes)