

## Shapefiles

The "Shapefiles" available on the Open Data contain the basic informations about the spatial structure of the STIB/MIVB network: route of the lines and position of the stops of the "commercial" network, that is the basic itineraries "to" and "from".













The Shapefiles are made available in a zip file of an average size of 1,5 MB. These are updated 2 or 3 times a year.

### 1. Downloading the files from the API:

<b>ENDPOINT</b>	<a href="https://opendata-api.stib-mivb.be/Files/2.0/Shapefiles">https://opendata-api.stib-mivb.be/Files/2.0/Shapefiles</a>
<b>Method</b>	GET
<b>MimeType</b>	application/zip
<b>Returned value</b>	a flux to download the file Shapefiles.zip

*An example of download by using CURL:*

- `curl -k -X GET --header "Accept: application/zip" --header "Authorization: Bearer ReplacericiparvotreToken" -o ./shapefiles.zip https://opendata-api.stib-mivb.be/Files/2.0/Shapefiles`
- This example downloads the file Shapefiles.zip in the current folder.
- Replace the "ReplaceherebyyourToken" by your token.
- An example of downloaded files (decompressed):

Name	Date modified	Type	Size
 ACTU_LINES.cpg	11/04/2017 09:25	CPG File	1 KB
 ACTU_LINES.dbf	11/04/2017 09:25	DBF File	136 KB
 ACTU_LINES.shp	11/04/2017 09:25	SHP File	5.154 KB
 ACTU_LINES.txt	11/04/2017 09:25	TXT File	2 KB
 ACTU_LINES.xml	11/04/2017 09:25	XML File	5 KB
 ACTU_STOPS.cpg	10/03/2017 14:36	CPG File	1 KB
 ACTU_STOPS.dbf	10/03/2017 14:36	DBF File	10.117 KB
 ACTU_STOPS.prj	10/03/2017 14:35	PRJ File	1 KB
 ACTU_STOPS.sbn	10/03/2017 14:35	SBN File	38 KB
 ACTU_STOPS.sbx	10/03/2017 14:35	SBX File	2 KB
 ACTU_STOPS.shp	10/03/2017 14:36	SHP File	110 KB
 ACTU_STOPS.shx	10/03/2017 14:36	SHX File	32 KB

### 2. Definition of a shapefile

By definition, the shapefiles contain information linked to the objects' geometry which, for STIB/MIVB, are lines (itineraries) and dots (stops). The extension is **.shp** and is always accompanied by minimum two other files:

- **.dbf** which contains the attribute data regarding the objects present in the shapefile.
- **.shx** which holds the index of the geometry

The .shp is also generally accompanied by the following files:

- **.sbn and .sbx** which hold the spatial index of the forms
- **.prj** which gives the information about the coordinate system
- **.shp.xml** which holds the metadata of the shapefile.

There are currently two shapefiles being distributed: "ACTU\_LINES" and "ACTU\_STOPS"

### "ACTU\_LINES"

- **Définition/description:** the shapefile of the lines is composed of the route of the variant 1 and of the variant 2 ("to" and "from") for each commercial line of the STIB/MIVB network. So, every object of the file represents a network line in one direction.

The following information is available for each object:

- **FID:** object identifier (*generated automatically*)
  - **Shape:** geometry field
  - **LIGNE:** commercial line number
  - **VARIANTE:** variant number of the line (1 or 2)
  - **Date\_debut:** start date of the represented network
  - **Date\_fin:** end date of the represented network
  - **COLOR:** official colour code associated to the commercial line (pantone code)
- Source/création de la donnée: The data are generated 2 or 3 times a year, during each period of changes (minimum in September and in February/March; also in July in case of major network modifications).

### "ACTU\_STOPS"

- **Définition/description:** the shapefile of the stops consists of all the stops for each commercial line of the STIB/MIVB network and for both directions. This means that each stop is multiplied according to the number of lines serving this stop. The stop is graphically represented by a local point in terms of stop line position of the vehicle (far front of the vehicle when it is at a stop).

The following information is available for each object:

- **FID:** identifier (*generated automatically*)
- **Shape:** geometry field
- **numero\_lig:** line number
- **terminus:** destination stop
- **VARIANTE:** variant number of the line (1 or 2)
- **mode:** B, T or M; represents the mode
- **stop\_id:** identifier stop number (internal identifier, 5 characters)

- **succession:** represents the stop position in the succession order of the stops along the itinerary
- **descr\_fr:** contains the functional name of the stop in capitals and in French
- **descr\_nl:** contains the functional name of the stop in capitals and in Dutch
- **alpha\_fr:** contains the official name of the stop in small letters and in French
- **alpha\_nl:** contains the official name of the stop in small letters and in Dutch
- **coord\_x:** coordinate X in Lambert 72 of the stop
- **coord\_y:** coordinate Y in Lambert 72 of the stop
- **date\_debut:** start date of the represented network
- **date\_fin:** end date of the represented network