

PRIM functional documentation

The Regional Mobility Information Platform

[Getting started with the Île-de-France Mobilités Calculator APIs](#)

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Preamble

The role of Île-de-France Mobilités

Île-de-France Mobilités is the Organizing Authority for Sustainable Mobility (AOMD) in the Ile-de-France region.

It designs, organizes and finances public transportation for all Ile-de-France residents.

The Organization **also guarantees the quality of the passenger information (transport offer, timetables, pricing and disruption information).**

IDF Mobilités currently has an Information System dedicated to collecting, storing and distributing public transport data. This consists of about **fifteen interfaced applications**, which ultimately offering:

- A range of services for passengers through websites and mobile applications.
- Data and APIs for developers/re-users through the site prim.iledefrance-mobilites.fr

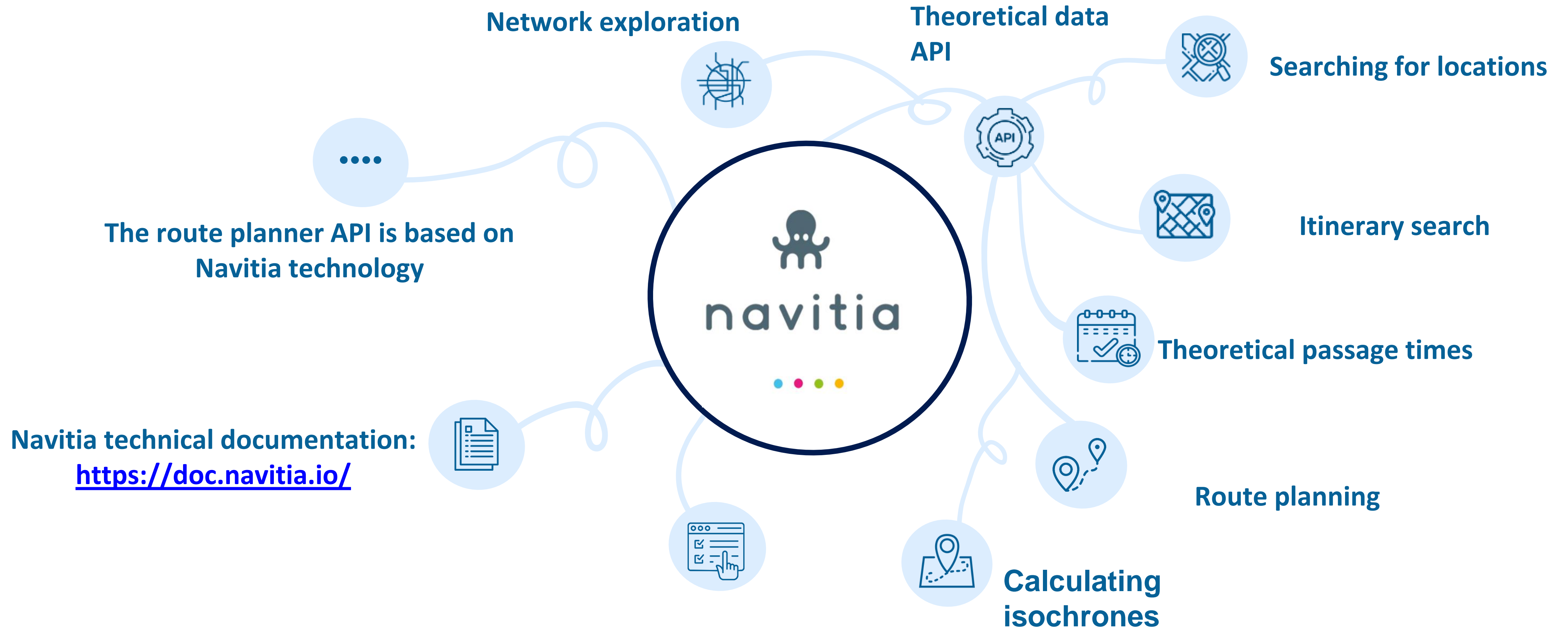
The passenger information business target must register in a **global trajectory** towards **MaaS (Mobility-as-a-Service)**. This essential step consists of **creating a Regional Mobility Information Platform (PRIM)** that:

- Aggregates the entire passenger information offering in terms of services and data;
- Feeds several Front Offices dedicated to different audiences, primarily those of Ile-de-France Mobilités, but possibly also to other customer Front Offices

Getting started with APIs

Île-de-France Mobilités calculator - Generic access (Navitia)

Ile-de-France Mobilités calculator - Generic access (Navitia)



Data quality



Data is updated **daily**.
Data covers the **next three weeks**.

All RER A and B timetables are provided by **SNCF**.



SNCF **timetables include adaptations made during planned works**, as well as substitutions made by bus (e.g.: a bus journey will be offered if a section is cut off due to works).



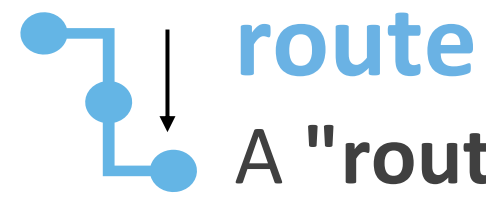
As a general rule, **RATP timetables do not include adaptations made during planned works**.

(e.g. closure of a metro station).

Contrary to GTFS files, **API data takes into account the Local Traffic Bans** that sometimes exist on certain OPTILE bus lines.



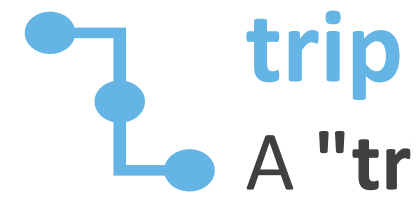
Call settings



route

A **"route"** is a set of itineraries grouped under the same name. This object refers to the line identifier available in the line repository.

Ex: IDFM:C01371 (Métro 1)



trip

A **"trip"** is a structured sequence of stops on a given line.

IDFM:RATP:9541-C01371-10_3736592_955496 (Métro 1 - la Défense Direction)



service

A **"service" trip** is the variation of a route at a given time. A trip assigns a passage time to each stop on the route.

On a given day, a trip is unique: two vehicles in the same line each perform a different trip.

Ex: IDFM:100071 (Métro 1 - a trip that runs only on Saturdays from August 21, 2021, to August 28, 2021)

Call settings



agency

An **"agency"** is a commercial transport network

Ex : IDFM:Operator_100 (RATP)

stop

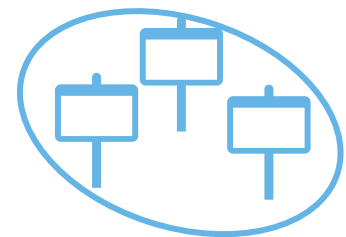


A **"stop"** is an object that describes a type of stop.

1/ A single transporter's stop point. In this case, it takes the following forms: StopPoint Ferré (RER,Transilien): "IDFM:[ID ZdA] "

- StopPoint Ferré (RER,Transilien): "IDFM:[ID ZdA] "
- StopPoint (rest): "IDFM:[ID ArR] "

Ex : IDFM:3640 (Jean de La Fontaine)



2/ A **"stop_area"** is a grouping of physical stops with the same name, also known as a commercial stop.

- StopArea : "IDFM:[ID ZdC]"

Ex : IDFM:70604 (Porte de choisy)



"Stop_point" is non-permanent data for the bus.

It is likely to be changed each week when the GTFS is published.

The **"stop_points"** are stable for the rail network.

Use {URI} parameter in Navitia generic API

The {URI} parameter means that the call parameters are integrated into the query URL and are not, as is usually the case, at the end of the query URL.

Example

Objective :

Retrieve all stop_points on metro line 1 (line:IDFM:C01373)

We use the method: v2/navitia/{uri}/stop_points/{id}

With call parameter in place of {id}: lines%2Fline:IDFM:C01373

Decommissioning of "fr-idf" coverage to new coverage

The Île-de-France Mobilités Calculator APIs (Navitia) are changing coverage from mid-January 2024

Query structure - calling routes

Old route (decommissioning end of February 2024)

Ile-de-France Mobilités Calculator - Generic access

<https://prim.iledefrance-mobilites.fr/marketplace/navitia/coverage/fr-idf/...>

Example : <https://prim.iledefrance-mobilites.fr/marketplace/navitia/coverage/fr-idf/places?q=bastille>

Ile-de-France Mobilités Calculator - Trafic messages

https://prim.iledefrance-mobilites.fr/marketplace/navitia/line_reports/coverage/fr-idf/...

Example : https://prim.iledefrance-mobilites.fr/marketplace/navitia/line_reports/coverage/fr-idf/line_reports?count=1000

Ile-de-France Mobilités Calculator - Isochrones

<https://prim.iledefrance-mobilites.fr/marketplace/navitia/isochrones/coverage/fr-idf/...>

Example : https://prim.iledefrance-mobilites.fr/marketplace/navitia/isochrones/coverage/fr-idf/isochrones?from=stop_area:IDFM:71264&max_duration=1800&

New route from January 11, 2024

Ile-de-France Mobilités Calculator - Generic access (v2)

<https://prim.iledefrance-mobilites.fr/marketplace/v2/navitia/...>

Example : <https://prim.iledefrance-mobilites.fr/marketplace/v2/navitia/places?q=bastille>

Ile-de-France Mobilités Calculator - Trafic messages (v2)

https://prim.iledefrance-mobilites.fr/marketplace/v2/navitia/line_reports/...

Example : https://prim.iledefrance-mobilites.fr/marketplace/v2/navitia/line_reports/line_reports?count=1000

Ile-de-France Mobilités Calculator - Isochrones (v2)

<https://prim.iledefrance-mobilites.fr/marketplace/v2/navitia/isochrones/...>

Example : https://prim.iledefrance-mobilites.fr/marketplace/v2/navitia/isochrones/isochrones?from=stop_area:IDFM:71264&max_duration=1800&

Support & Documentation

Support & Documentation

The PRIM Support team will help you use these services through the various documentations provided. Support can be reached by e-mail or through the "[Slack](#)" instant discussion forum.

Do you have a question?
A suggestion for improvement?
Don't hesitate to contact us via our
support e-mail: contact-prim@iledefrance-mobilites.fr



[Prim platform presentation \(PDF\)](#)