

PTV Navigator G2

Service Description

Document information

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Service Description

1 Product objective

PTV Navigator G2 is a navigation application for commercial vehicles, especially made for trucks.

Based on routes that consider vehicles specific restrictions PTV Navigator uses historic, real time and predictive traffic information to find the best route for trucks considering vehicle specific restrictions in every situation. Built for a logistic environment it offers an API for other apps to automatize driver related processes.

The Navigation License Manager as a part of the solution is used to organize fleet usage and to deploy the solution to the target group. The business model supports device independent licenses for a higher flexibility in using PTV Navigator in an everyday changing environment.

Typical target groups are fleet owners or partners that provide software to fleet owners, that bundle their software with navigation, often already integrated by interface with each other.

2 Product description

2.1 Navigation License Manager

2.1.1 Registration and Activation

After registration on PTV Platform and logging in with your MyPTV ID the Navigation License Manager can be activated.

The Navigation License Manager is only accessible through one user account owned by the registered user who activated the subscription. |

On the Product Main Page, beneath managing the user profile or switching to other activated PTV platform applications, the following functional apps are offered:

2.1.2 My Subscription

Select your plan, enter your billing settings and look up invoices.

Public plans are (availability depending on product roadmap):

Free Trial

The Free Trial Plan is meant to be used to explore product features or for pretesting. In the free trial period commercial usage or operation is not permitted.

Public Plan or Individual Plans

These Plans are intended for commercial use, under a subscription model and define conditions of this usage found in the description of the plan.

2.1.3 License Keys

Create, manage or delete license keys, that are used to license the daily usage up to a defined number of licensed devices using PTV Navigator.

Devices can be licensed for usage by entering or copy the license key into the PTV Navigator apps license key field or by scanning the offered license QR code with the PTV Navigator app.

A usage overview provides the maximum number of devices usable in the month as well as the highest number of used devices per day in a month(=Monthly Active Users=MAU).

2.1.4 App Download & Documentation

Beneath downloading the PTV Navigation app as APK-file, installation procedures are described step-by-step in the Download section.

Information about version history and the technical requirements are provided.

The API documentation offers an introduction, tutorials, example implementation and complete API Reference for the access on PTV Navigator from other mobile applications on the same device. By offering this online service the user can always access the latest changes and documentation.

2.1.5 Contact Sales

Contact Sales enables customers to get in contact with the sales team, to discuss open questions or additional licensing options on individual contractual base.

2.1.6 Support

Based on a ticket system, questions are answered by our support team for

- Incidents (technical problems)
- Orders (questions about your subscription, billing, or payments)
- Software (functional or contents related questions)

Support will be provided in English

2.2 Navigation App

2.2.1 Licensing

Upfront to using the PTV Navigator, it must be licensed for usage. There are several ways like entering or copying the license key or scanning the licensing QR code (provided by the Navigation License Manager).

2.2.2 Settings

Various options for using the PTV Navigation can be selected

- Map & Design
- Routing
 - Vehicles, and their dimensions, options
 - Avoidance of road types
 - Optimization settings
- Traffic settings
- System information and settings

2.2.3 Selecting a Target and Route

Targets are selected via click on the map or entering the target in a one field search. Addresses as well as POIs (Points of interest) are valid.

The user selects from different alternative routes, in consideration of the active vehicle.

2.2.4 Navigating

While navigation the user receives navigation hints and spoken guidance instructions, the route is automatically updated using current traffic information.

Current route KPIs (ETA, distance, resting time are displayed)

Speed limits are displayed vs currently driven speed.

A lane assistant supports with detailed information which lanes should be used to follow the route.

2.2.5 API-Usage

To automate Navigator usage, the main functionality offered in the API groups like this:

- Managing stops
- Start/stop navigation
- Bring to Front
- Manage vehicle profiles

3 Technical system description

3.1 General

The PTV Navigator Offer consists of 2 parts:

PTV Navigation License Manager

... is a browser-based application, that is used to sign up, manage subscriptions, download navigation app, manage licenses, or get documentation and receive support. It is intended to be used by fleet managers.

PTV Navigator G2

... is a mobile application for Android or a component for building mobile applications under Android or iOS. The downloaded app must be licensed, using licenses granted by the PTV Navigation License Manager before being used. It is the application used by drivers.

3.2 Technical scope and requirements

Technical scope and requirements

PTV Navigation License Manager

- operates via Windows Azure™ on Europe cluster; PTV GmbH's data center and network.
- Browser: Use the latest version of Google Chrome™ or another Chromium-based browser for best results.
- Screen resolution: 1600 x 900 (high color quality) or higher
- Processor: Recommended Intel Core i5 or newer
- Operating system: Microsoft Windows 8 or newer
- Supported language is English (US) only

PTV Navigator

- Minimum Android version: 6 (Marshmallow)
- Minimum target API: 23 (Marshmallow)
- mobile data connection: 4G(LTE)/5G
- Required permissions: camera (for QR-code), location, files & media
- Minimal free storage: 1GB (typical consumption 300MB, may vary)
- Mobile data consumption: typically, 50-170MB/h with 120km/h (may vary)
- Supported interface languages include English, German, others on availability
- Supported spoken languages for navigation hints include: Afrikaans, Arabic, Basque, Bulgarian, Catalan, Chinese(PRC), Chinese(Taiwan), Czech, Danish, Dutch(Belgium), Dutch, English (Australia), English (Great Britain), English (USA), Estonian, Finnish, French (Canada), French, Galician, German, Greek, Croatian, Hebrew, Hungarian, Indonesian, Italian, Kazakh, Latvian, Lithuanian, Malay, Norwegian, Polish, Portuguese(Brazil), Portuguese(Portugal), Romanian, Russian, Serbian, Slovak, Slovenian, Castilian Spanish, Swedish, Thai, Turkish, Ukrainian, Vietnamese