

PTV Visum Publisher

Service Description



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1 General profile

PTV Visum Publisher is a web application that interactively presents, investigates, and shares PTV Visum traffic modeling data and results. User-defined dashboards can be used to display graphs, maps, and animations to present data from one or multiple scenarios. Users can collaborate on and share dashboards with project team members with PTV Group IDs.

2 Technical system description

2.1 General

PTV Visum Publisher can be used as a web client and is recommended to be used with the Google Chrome™ web browser on a desktop computer. Functionality and layouts from untested web browsers and operating system recommendations can vary.

PTV Visum Publisher operates via Windows Azure™; PTV GmbH's data center and network.

The Service Description is not an assurance of a claim to all variants.

2.2 Technical requirements

2.2.1 PTV Visum

Browser

Use the latest version of Google Chrome or another Chromium-based browser.

Web.GL 2.0, Java. Script and Cookies need to be enabled.

The browser needs to support hardware acceleration.

Client configuration

Network bandwidth: recommended connection speed 20 Mbps or more.

Screen resolution: 1600 x 900 (high color quality) or higher.

Processor: recommended Intel Core i5 or newer.

Graphics card: needs to support web.GL and hardware acceleration.

Operating systems

Microsoft Windows 8 or newer.

Apple Mac OS X Lion 10.12 or higher.

Chrome OS with Intel-CPU.

Linux.

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Mobile requirements

Visum Publisher is not designed for mobile devices. Usage and viewing on a mobile device is at the customer's own risk.

Performance limits for animations

The performance of streaming trajectories for animations in dashboards depends heavily on the available network bandwidth, processor, and graphic card. To minimize waiting times and ensure fluid animations, we recommend adjusting the number of concurrent animated objects in case loading times are too long when playing the animation.

Performance limitations for static data

The performance of loading static data depends on the number of data sources, contained objects, and the complexity of their geometries when displayed in a map widget. To reduce loading times, it is possible to restrict the number of uploaded objects before exporting and uploading the data sources, using filters in the dashboard, and simplifying the geometries in Visum before uploading them. Especially, polygons of zones can have very detailed outlines with many points that can cause long loading times in dashboards.

3 Product descriptions

3.1 Subscription

A subscription for Visum Publisher provides the customer with one product instance in which data and dashboards are stored, and a selected set of accounts can have access to. Typically, a subscription is used to store the information needed for one project. A subscription is owned by the initiating user who activated it and can be accessed by the assigned users.

A subscription is assigned to a plan. A plan defines the edition limitations of the subscription and term duration. There are three editions available for Visum Publisher: Free 30-day Trial Edition, Small Team Edition, and Large Team Edition. The Small Team and Large Team Editions both have monthly and annual plans.

Each user can activate and own at most one Trial plan, called the Trial Edition –available for free and limited to 30-days. Users can change the plan of a subscription by ordering subscription upgrades.

3.2 Editions

All editions include the functionality to upload and manage data, create, edit, and manage dashboards as well as comment on dashboard content.

The following are the current product editions and their limitations:

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| PRODUCT LIMITATIONS | FREE 30-DAY TRIAL EDITION | SMALL TEAM EDITION | LARGE TEAM EDITION | |
|--|--|-----------------------|-----------------------|--|
| TYPE | Free | Paid | Paid | |
| SUBSCRIPTIONS PER USER | 1 | Unlimited | Unlimited | |
| USERS PER SUBSCRIPTION | 1 | 25 maximum users | 50 maximum users | |
| AVAILABLE DASHBOARDS | 10 | 20 | 20 | |
| PUBLIC DASHBOARD SHARING* | 1 | 10 | 20 | |
| USER DASHBOARD SHARING, VIEWING, & EDITING | Single user | Team mer | Team members | |
| DASHBOARD COMMENTING | Single user | Team members | | |
| CUSTOMER SUPPORT | Basic Full | | Full | |
| MODELS PER SUBSCRIPTION | Unlimited | | | |
| SCENARIOS UPLOADED | Unlimited | | | |
| WIDGETS PER DASHBOARD | Max: 8 map widgets. | | | |
| DATA UPLOAD LIMITS | 1 GB per scenario (zipped) | | | |
| | 160 MB per data source of type attribute (unzipped) | | | |
| | 670 MB per data source of type trajectory (unzipped) | | | |

^{*}A public dashboard is limited/metered to 500 parallel sessions to provide fair usage of services across all customers, as described in the Terms of Use PTV Cloud Services (https://www.ptvgroup.com/en/Terms_of_Use_PTV_Cloud_Services_EN.pdf). Anyone that receives a publicly shared link via direct (or indirect) distribution can see the dashboard content. The ID Owner is solely responsible for the use and sharing of protected, licensed, or sensitive information.

3.2.1 Free 30-day Trial Edition

All dashboards and data within these subscriptions are only accessible through one user account owned by the registered user who activated the subscription. Initially, this account is assigned to all access-right groups and has access to all functionalities of PTV Visum Publisher.

The Free 30-day Trial Edition can be upgraded to a paid plan. Upon conversion to a paid plan, a new trial subscription can be activated by the user.

Only one trial subscription can be owned at a time per user. After upgrading a trial plan to a paid plan, an additional trail subscription can be activated by the user.

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The Free 30-day Trial Edition is meant to be used to explore product features, classroom/training, and education, or for project marketing activities (tenders/proposals). This subscription shall not be used on paid private or public projects or university research (professional usage) without authorization by PTV Group.

Any screen capture, result, or data pulled from the Free 30-day Trial Edition shall properly credit the use of "PTV Visum Publisher".

3.2.2 Small Team Edition

The Small Team Edition with features and limitations enables team members with PTV Group IDs to collaborate on the same subscription. The Free 30-day Trial Edition can upgrade to a Small Team Edition plan directly. And, a Small Team Edition plan can upgrade to a Large Team Edition plan. It is not possible to convert a Small Team Edition subscription down to a Free 30-day Trial Edition.

The Small Team Edition is meant to be used to support the communication process and collaboration between the public and stakeholders on paid private or public projects or university research (professional usage).

3.2.3 Large Team Edition

The Large Team Edition with features and limitations enables team members with PTV Group accounts to collaborate on the same subscription. The Free 30-dayTrial Edition can upgrade to a Large Team Edition plan directly. And, a Small Team Edition plan can upgrade to a Large Team Edition plan. It is not possible to convert a Large Team Edition subscription down to a Small Team Edition or Free 30-day Trial Edition.

The Large Team Edition is meant to be used to support the communication process and collaboration between the public and stakeholders on paid private or public projects or university research (professional usage).

3.3 User Management

User Management allows users to manage who has team access to the subscription and their access rights.

Each account can be assigned to multiple access-right groups. User accounts are granted different access to the functionality of the product depending on what group they are assigned to.

PTV Visum Publisher includes three access-right groups:

- Admins have access to the User Management of the subscription. They can add users
 to the subscription or invite people without a PTV Group ID to register and join the
 subscription. Admins can assign accounts to access-right groups or remove them from the
 subscription.
- Editors can upload, edit, and delete data and dashboards in PTV Visum Publisher. They
 can create, edit, and delete comments. Editors can mark dashboards as accessible for
 Viewers.

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 Viewers – can view all dashboards marked as accessible in read-only mode. Users will be able to create, edit and delete comments on accessible dashboards.

When a subscription is upgraded from the Free 30-day Trial Edition to a paid edition, the limit of users allowed for the subscription is adjusted.

When activating a Free 30-day Trial Edition subscription, the activating account is automatically assigned to the access-right groups: Admins and Editors.

3.4 PTV Visum Publisher Functionality

The PTV Visum Publisher functionality is divided into three (3) main areas:

- Dashboard List;
- Data List: and
- · Dashboard Editor.

The Background Map Services used in the dashboards are part of the Dashboard Editor.

3.4.1 Dashboard List

Dashboard List displays all dashboards created within the subscription. The following are features of the Dashboard List:

Add Dashboard - creates a new dashboard

Name - opens the dashboard in the Dashboard Editor

Visible for team viewers - controls the visibility for the team Viewers role

Active public link – controls the visibility for public visitors

Edit – enables the user to change the dashboard name and sharing options

Delete – enables the deletion of a dashboard

Link copy – copies the dashboard's public share link.

3.4.2 Data List

Data List displays the hierarchy and data source(s) available within a subscription, as well as processing status, details, and attributes for the data. Uploaded data is processed for usage in the Dashboard Editor. The following are features of the Data List:

- Add Model creates a new container to store scenarios.
- Add Scenario creates a new data container to store data source(s). Data from PTV
 Visum can be uploaded directly to a scenario in PTV Visum Publisher.
- Data Source State displays the condition of the data source, such as warnings, upload errors, and processing progress.
- Data Source Details displays data source details, such as type and source of data, attributes within the data, and warning messages after processing.

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 Delete – enables the deletion of a model, scenario, or data source(s) within a model or scenario.

3.4.3 Dashboard Editor

The Dashboard Editor displays the selected dashboard. Dashboards are set up by adding widgets or widget templates. Filters can be used to trim the data set. Furthermore, comments can be added to static maps. The following are features of the Dashboard Editor:

- Header enables navigation to the dashboard and Data Lists, review dashboard tools, save and delete dashboard options, and an option to reject the current dashboard draft.
- Canvas provides an area to add and arrange widgets.
- Widget templates selects and adds pre-configured widgets from uploaded data sources
 to the dashboard. Users can search for widgets using a search field. Widgets consist of
 line charts, bar charts, static maps, animated trajectories on a map, text, or a scenario
 switch.
- Widget settings controls the selected attribute from the data source and properties, such
 as object types, opacity, line width, and aggregation type. Layer legends can be shown,
 map styles can be selected, and default camera positions can be recorded.
- Review/comments allows creating comments in dashboards to document feedback and discussions..
- Filters enables a series of filters to be added to the dashboard to restrict the display of static data.
- Share Dashboard enables sharing for team Viewers and public visitors and copy of the dashboard links.

3.4.4 Background Map Services

Live internet web maps are provided in the PTV Visum Publisher Dashboard application's map-based widgets via MapTiler© and OpenStreetMaps© contributors. These maps enable pan, zoom, and pitch functionality, as well as various map display styles. PTV Visum Publisher may discontinue, replace, or update these 3rd party services at anytime during a plan term, or access may be removed by the 3rd party provider. For more details and usage requirements, see the 3rd Party License information in the Terms of Use PTV Cloud Services

(https://www.ptvgroup.com/en/Terms of Use PTV Cloud Services EN.pdf).

3.5 Data Transfer

Transferring data to PTV Visum Publisher's Dashboard application is divided into two (2) main areas:

- Data List; and
- Data Transfer Tool.

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3.5.1 Data Lists

PTV Visum Publisher's Data List provides the hierarchy for data uploaded from PTV Visum. In addition, this area lists statuses on the PTV Visum Data Transfer Tool's upload progress and failed uploads.

3.5.2 Data Transfer Tool

The Data Transfer Tool is provided in Visum. The export can be done with the current and last main version of PTV Visum. Older versions are not guaranteed to be compatible. Within PTV Visum, users log in to PTV Visum Publisher, select a model's target scenario, and upload applicable PTV Visum data into a PTV Visum Publisher subscription. The Data Transfer Tool will then upload the data. See the PTV Visum user manual for Visum related information.

4 Help

Documentation is provided within the PTV Visum Publisher application. This Help information provides minimum guidance to set up and use PTV Visum Publisher.

5 Support

The support offering is summarized in Section 3: Editions per subscription Plan. The Terms of Use PTV Cloud Services (https://www.ptvgroup.com/en/Terms_of_Use_PTV_Cloud_Services_EN.pdf) discusses support levels offered for paid plans.

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