

Use AJAX to speed up your web application based on PTV Mobility Platform! Ready-made PTV AJAX Servlets help you to easily integrate AJAX technology.

PTV AJAX Servlets control the asynchronous transfer of data between a server and a client, and thus boost the speed of your web applications, offering numerous new functions.

# PTV AJAX Servlets



## Fast, interactive maps

Fast, interactive maps can be embedded into web pages by means of PTV AJAX Servlets. The speed of AJAX maps has given rise to a new level of user interactivity: it allows the users to seamlessly zoom in and out of the map and drag it around. Additionally, POIs and traffic information can be displayed on the map, and the users have immediate access to additional information – just a mouse click away, without page refresh and time delay.



AJAX allows the users to seamlessly zoom in and out of the map and drag it around. POIs are immediately displayed on the map.

## Changing routes via drag'n'drop

With PTV's AJAX maps the users can now drag'n'drop directions at any point in order to reroute according to their requirements, for example by grabbing the route line and dragging it, to choose a new destination point (e.g. a motorway). It is also possible to include new stop-off points or to change the starting point and destination – quickly and seamlessly. The route list will of course be updated as well.



Drag'n'drop directions at any point in order to reroute directions.

## Address Suggest function

The Address Suggest function is another typical AJAX feature. It helps the user to quickly enter address data, such as towns, streets or postcodes. When a user starts typing the first letters or numbers into the search box, a drop-down menu appears with most likely matching address input.



The Suggest function helps users to quickly enter address data.

## More AJAX features

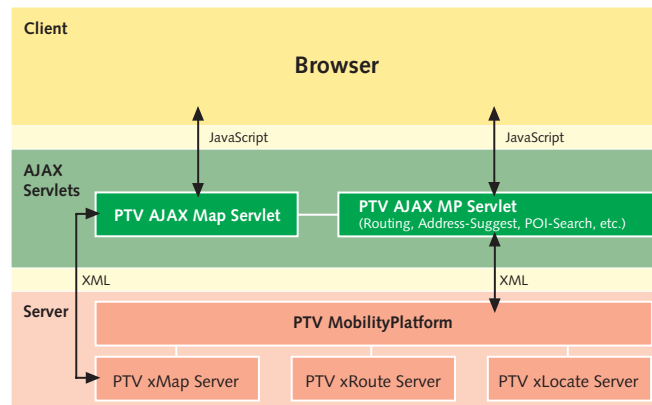
PTV AJAX Servlets allow users to create numerous other AJAX features based on PTV MobilityPlatform:

- Embedding satellite or aerial images
- POI Suggest function
- POI search along the route within a search corridor based on routes or driving time
- Virtually driving along the route on the map
- Selecting traffic news from a list to be displayed on the map

## PTV AJAX Servlets for developers

The ready-made PTV AJAX Servlets help developers to quickly and easily embed AJAX features into their web applications. The PTV AJAX MP Servlet controls the asynchronous data transmission between the browser and

PTV MobilityPlatform: it provides the data which are continuously requested from PTV MobilityPlatform. PTV's AJAX Map Servlet is responsible for the map data. It has direct access to PTV's xMapServer.



## How does AJAX work?

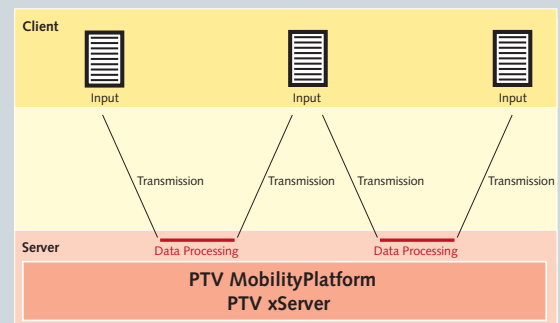
AJAX (Asynchronous JavaScript and XML) stands for an asynchronous data transmission between a server and a client. This means that AJAX-based web applications are much faster than standard client-server communication; they behave like desktop applications and provide the user with exciting real-time results.

AJAX processes the web application behind the scenes: it provides new map or POI data which are continuously requested from the server. New data, which are created by zooming in and out of the map, dragging the map around or requesting POI data, can instantly be reloaded without sending a new request to the server. With AJAX only the changes are reloaded and not the entire page.

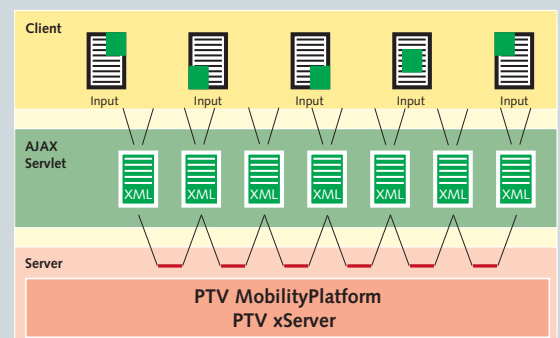
The same applies to AJAX-based Address or POI Suggest features. While entering the data, the web application searches for relevant entries and suggests the possible matches to the user.

Drag'n'Drop routing is also based on AJAX technology: it uses existing route sections so that only the new route sections are reloaded if directions are rerouted.

AJAX applications are controlled by JavaScript which means that all standard browsers support this technology.



Classic client-server communication model



AJAX model: Asynchronous data transmission between the server and the client (input/display). Only new data are exchanged on the client.