

PTV xTour Server

Depot-related trip planning

The PTV xTour Server creates efficient trip plans for transportation logistics and sales forces. It considers customer time limits, depot opening hours, driving time, rest periods and vehicle capacities.



Plan trips efficiently

With the PTV xTour Server, trip plans can be created or existing trip plans can be optimised. PTV xTour Server efficiently assigns transport orders to vehicles in your fleet and optimizes the order sequence. All the plans are „depot-related“. That means trips start at a depot and end at a depot - although not necessary the same one. Either direct distance, route or driving time can be selected as basis for planning.

Time restrictions

PTV xTour Server takes the following time limits into account when planning trips:

- Depot opening hours
- Availability / return time: goods are only available at the depot after a certain time or have to be delivered to the depot by a certain time.

- Customer opening hours
- Fixed pick-up / delivery times
- Maximum time between pick-up and delivery

Vehicle parameters

PTV xTour Server takes the following parameters into account when planning trips:

- Vehicle capacity: freely select the loading capacity unit (cubic meter, liter, etc.)
- Configurable vehicle parameters: up to 255 properties can be assigned to a vehicle (e.g. Refrigeration available yes/no) and used during planning. The transport order needs to be assigned an equivalent criterion (e.g. Refrigeration needed yes/no).

- Speed profile: PTV xTour Server assumes that all vehicles generally travel at the same speed. However, you can specially configure the travel time calculations for individual vehicles.
- Loading and unloading time: this parameter adds to a fixed component another variable component that rises as the amount of cargo increases.

Driving times and rest periods throughout Europe

PTV xTour Server factors in driving times and rest periods for professional cargo and passenger transport within the European Community. They can be supplemented with the following rules:

- Vehicle loading and unloading times can be classified as breaks
- Balances (breaks and working hours) can be carried forward from one trip to another
- A regular break can be split up into several short ones

Multi-depot planning

PTV xTour Server supports multi-depot planning in which orders are assigned to the best possible depot. Assignments are made based on travel time or road distance.

Integration

PTV xRoute Server integrates with other systems over standardised web service interfaces (XML, SOAP). It is scalable and actively supports multi-processor systems.

Hardware requirements

- At least 1 GB RAM (1 GB RAM recommended for each CPU in use)
- Pentium 4 (1 GHz) or better

Operating system

PTV xTour Server runs on the following Windows platforms:

- Windows 2000
 - Windows XP
 - Windows 2003
- (Linux support under development)

The PTV xTour Server at a glance:

- ▶ Trip planning and optimisation
 - ▶ On the basis of road distance or travel time
 - ▶ Efficient utilisation of vehicle fleet or sales force
 - ▶ Take time limits and vehicle capacities into account
 - ▶ Take driving times and rest periods into account
 - ▶ Integrate the component easily using standardised interfaces (XML/SOAP)
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