

Fleet Planning & Optimisation: Plan, schedule and optimise truck routes to ensure the most efficient use of your fleet

ABOUT PTV XSERVER

PTV xServer is a software developer kit that offers accurate maps and data as well as high-performing software components for truck routing, route optimisation & scheduling and field service management.

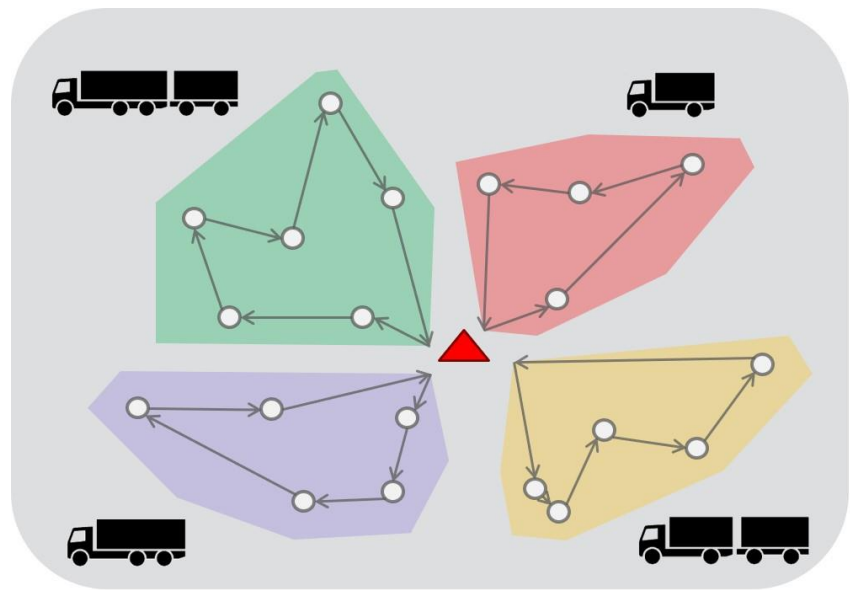
The PTV xServer software components combine precise functions and algorithms with decades of experience in logistics. They can be flexibly integrated into any system environment and solve your logistical and geographical challenge from order entry to delivery at maximum level of detail and performance.

WHY USE SOFTWARE TO PLAN AND OPTIMISE FLEET USE?

Route optimisation is a complex challenge: Imagine you want to plan the optimum trip for one driver who is to carry out five orders in one trip. Even in this seemingly simple scenario, 120 different routes are available. With more vehicles and stops as well as other relevant factors like truck attributes, traffic patterns and time restrictions to consider, the routing problem becomes much more complex and challenging to solve. Optimisation and scheduling software enables you to find the optimum route more easily and to schedule pickups and deliveries for most optimal fleet use.

WHY USE THE FLEET PLANNING & OPTIMISATION API BY PTV XSERVER?

Our software solutions for route optimisation and scheduling are built on the knowhow and experience from four decades in transport and logistics planning. No matter how complex your optimisation and scheduling problem - the Fleet Planning & Optimisation API by PTV xServer is up for the challenge. The API is available as a cloud-based web service or an on-premise solution. Due to its standardised interface, the component can be easily integrated into an existing software architecture.



PTV Components

FEATURES

PLAN AND OPTIMISE ROUTES FOR ANY FLEET SIZE

The Fleet Planning & Optimisation API factors all vehicles, tractors and trailers at your disposal as well as all combination possibilities into route planning.

FACTOR TIME RESTRICTIONS INTO ROUTE PLANNING

Consider legal or your own set of rules regarding break and rest times and factor them into your route planning. Consider additional time restrictions such as opening hours of depots and ramps.

DEFINE YOUR PERSONAL OPTIMISATION GOAL

Do you want to minimise vehicle deployment? Distribute the workload equally on your drivers? Regardless of your preferences - the Fleet Planning & Optimisation API calculates the optimum result for your goal.

CONSIDER RELEVANT TRUCK ATTRIBUTES

Define your vehicles' attributes (e.g. size, length and weight as well as loading capacity, special cargo and speed profiles). The API delivers the optimum route that considers all truck-specific attributes as well as access restrictions in inner-city areas as well as toll charges.

FLEXIBLY ADD LAST-MINUTE ORDERS INTO EXISTING ROUTES

You want to add orders you received at short notice into an existing trip? No problem. Simply add the new stop to receive an amended sequence of stops.