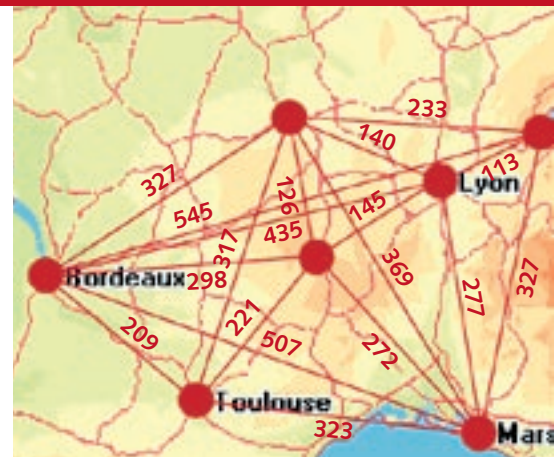


PTV xDima Server

Distance matrices

The PTV xDima Server calculates the distances and travelling times between many locations (so-called Distance matrices or distance tables) and makes them available for use in other applications.



Calculation of distance matrices

The PTV xDima Server receives geocoordinates from locations and calculates routes and travelling times between all locations. The result is a distance matrix, which contains the distances and travelling times between all locations. Vehicle profiles and other routing parameters can be set in the calculation:

- Vehicle type (PKW or LKW)
- Route/time preferences – you decide whether the fastest or the shortest route should be calculated and to what extent
- Preference or avoidance of eight road classes is possible (e.g. toll roads, motorways, residential areas)
- Speed for eight road classes

Management of distance matrices

The PTV xDima Server manages the calculated distance matrix and makes it available for other applications (for example trip planning or location planning systems). They are then provided with the precalculated distances and travelling times much quicker than if a new calculation had to be made for each request. Intelligent management mechanisms ensure increased performance.

The PTV xDima Server can export distance matrices so that they can be directly used by other systems. In the same way, previously calculated distance matrices can be imported and managed.

Integration

PTV xRoute Server integrates with other systems over standardised web service interfaces (XML, SOAP).

It is scalable and actively supports multi-processor systems.

Data basis

The PTV xDima Server is provided with PTV standard maps and accesses their road network data. PTV offers a wide range of regularly updated maps. For decades, PTV has been working closely with NAVTEQ, Tele Atlas and AND – all leading suppliers of map data.

Hardware requirements

- At least 1 GB RAM (1 GB RAM recommended for each CPU in use)
- Pentium 4 (1 GHz) or better
- Hard drive space: depends on map in use. Example - Europe map: 10 GB

Operating system

PTV xSequence Server runs on the following Windows platforms:

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

The PTV xDima Server at a glance:

- ▶ Calculate and manage distance matrices / distance tables
 - ▶ With road distance or travel time
 - ▶ Customisable vehicle profiles
 - ▶ High performance
 - ▶ Integrate the component easily using standardised interfaces (XML/SOAP)
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