

PTV xLocate Server

Address geocoding

PTV xLocate Server converts mailing addresses into geocoordinates – from single addresses to entire address databases. It can even work in the other direction and find mailing addresses for geocoordinates (such as GPS position data).



Functions

PTV xLocate Server provides the following functions:

- Geocoding: Georeferencing of address data (e.g. customer addresses, depots, warehouses, POIs) for further use in information and planning systems.
- Batch mode for rapidly geocoding large address databases
- Reverse geocoding: PTV xLocate Server identifies the address for a particular geocoordinate
- Validating individual addresses or entire databases
- POI radius search / search for next (based on direct distance)
- Individually configuring the error tolerance for address entries

Technology

When geocoding, PTV xLocate Server checks the specified address against a reference database. Parameters determine the degree of error tolerance for address entries:

- Binary: exact match required
- Phonetic: includes identical-sounding addresses (entering “Kalsrue” produces Karlsruhe)
- Fuzzy: includes similar addresses

In reverse geocoding, PTV xLocate Server identifies the mailing address for a particular geocoordinate from the reference database. It supports several coordinate formats, including Geodecimal and GeoMinSec.

PTV xLocate Server integrates with other applications over standardised web service interfaces (XML, WSDL, SOAP).

It is scalable and actively supports multi-processor systems.

Data basis

PTV xLocate Server uses PTV's standard maps. 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 xLocate Server runs on the following platforms:

- Windows 2000, XP, 2003
- SuSE Linux 8.2, 9.x, 10.x, Red Hat Enterprise Linux 4

PTV xLocate Server at a glance:

- ▶ Geocode addresses and address databases
 - ▶ Validate addresses
 - ▶ Identify the mailing address for actual position coordinates
 - ▶ Perform radius searches based on direct distance
 - ▶ Integrate the component easily using standardised interfaces (XML/SOAP)
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