

T-WIST: GIS IN THE WEB ENVIRONMENT

T-MapServer is a technology designed to give the general public access to geographic and other information by means of web-based technologies. This technology may be used for various tasks ranging from simple viewing of maps to complex work with database or graphics based applications with the possibility of their interlinking.



Properties and functions of a map application server:

- Application server to various map servers (ArcIMS, MapServer, WMS (OGC), etc.)
- Database layers with the possibility of thematic mapping (MySQL, MS SQL, ORACLE, PostgreSQL, and Interbase)
- Wide range of server operating systems and other technologies (MS Windows, Linux, Solaris, etc.)
- Spatial objects search
- Access right discrimination
- Communication interface – easy integration with other applications
- Raster catalogue support
- Automatic optimisation of data transfer to client
- Excellent expandability - new data sources, new functions
- Dynamic load distribution to several servers
- Integration with all T-WIST server modules (databases, web pages)

Further features of the application server:

- Finding the optimal route, cartograms, cartodiagrams – bar and pie charts, editing of point layers, distance and area measurement

Properties and functions of the web client:

- Easy creation of the client either with or without frames, adjustment of the client's environment as well as functions according to the requirements of the users
- Tools for an active manipulation with the map (selecting extents, zoom in/out, pan)
- Switching the layers on/off
- Layers arranged in a tree structure, functional grouping of layers
- Maptips
- "Hotlink" – link to other applications, documents
- Displaying information about the selected objects
- Legend
- Printout

<http://www.tmapserver.cz/>



T-MapServer

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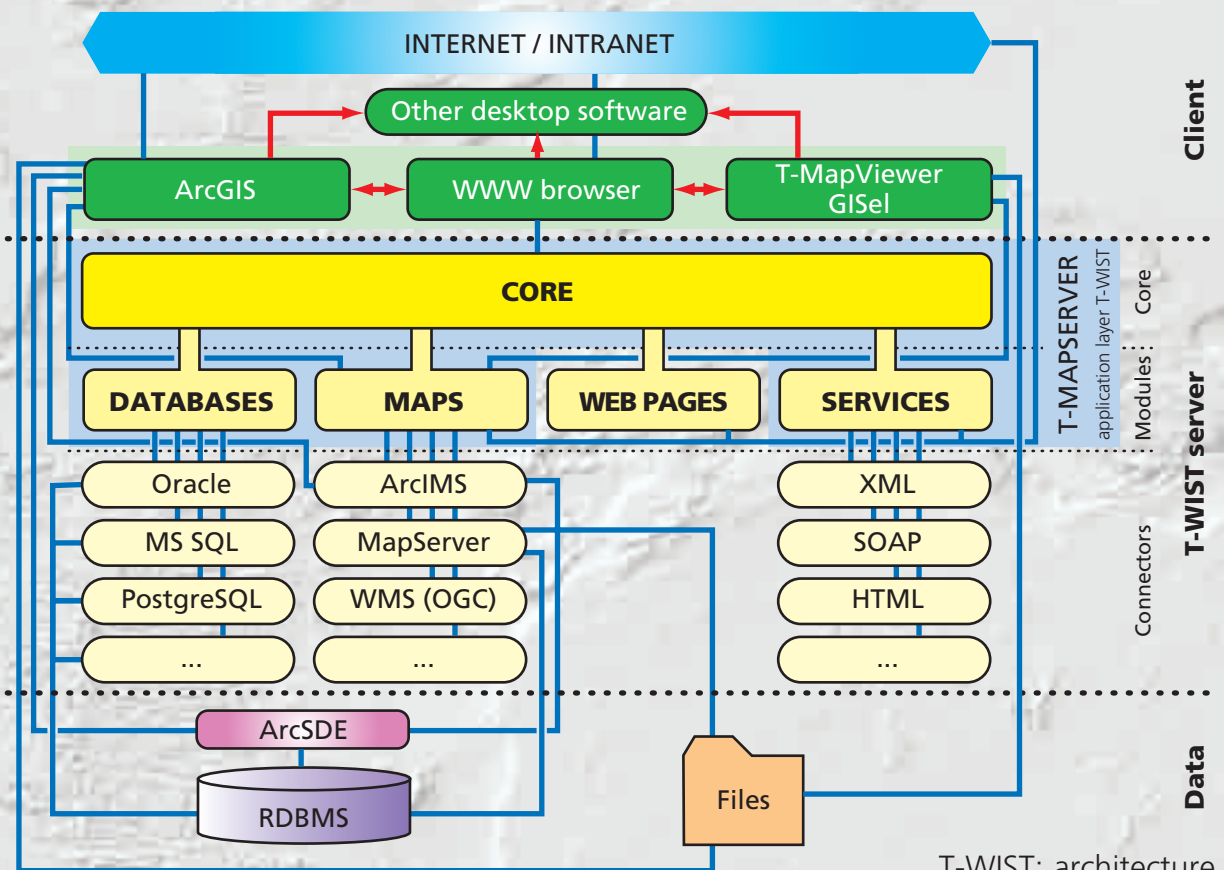
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T-WIST: architecture

T-MapServer is an application server to a wide range of map servers (commercial or free ones). It may be supplied as an application server to ArcIMS (ESRI), MapServer (the University of Minnesota) or other OpenGIS map servers. T-MapServer takes advantage of the capabilities of map servers and expands them by even further functions and properties needed for a full-fledged utilisation of a map server as a tool for work with maps in a web environment and its integration with other parts of information system.

Properties and functions of ArcIMS: examples

- Scalable technology (both MS Windows and Unix)
- Supporting all ESRI data formats
- Use of file data along with data stored in a geo-relational database (ArcSDE)
- Possibility of combining local data with data from the Internet
- Map objects creation and maintenance wizards
- Supporting multiple web servers
- Efficient client (HTML, Java)
- Development tools for user system modification
- Many ArcIMS servers available around the world

The company T-MAPY is an ESRI Developer Partner for ArcIMS.

Properties and functions of MapServer: examples

- Vector data formats: ESRI shapefiles, ESRI ArcSDE, MapINFO, Microstation DGN, PostgreSQL, etc.
- Raster data formats: TIFF/GeoTIFF, GIF, PNG, JPEG, Erdas .LAN/.GIS, etc.
- Spatial indices
- Transparent display of raster data
- TrueType font support
- Catalogues of raster as well as vector data
- Automatic description including optimised distribution
- Speed, etc.

The company T-MAPY co-participates in the development of MapServer.

Technical Requirements - Server

Operating system: MS Windows NT/2000/XP, SOLARIS, LINUX
 WWW server: APACHE, MS IIS

Technical Requirements - Client

WWW browser: MS Internet Explorer, Netscape, Mozilla