

DATA SHEET

MapInfo® Routing J Server

ROUTING J SERVER ENABLES YOU TO BUILD A POWERFUL ROUTING APPLICATION FOR USE WITH THE INTERNET, CORPORATE INTRANET OR CLIENT-SERVER ENVIRONMENT.



Summary

Routing J Server is designed to incorporate routing and drivetime functionality into applications demanding greater customization, control and security—ideal for companies with web, database and development expertise.

Benefits

- Determine your delivery areas and service territories—quickly and accurately
- Optimally manage your fleet's routes and delivery—with any number of vehicles and cargo
- Improve your guaranteed response times—plan better routes
- Drive more people to your stores—increase revenue through web-based store locators with directions

OVERVIEW

The MapInfo Routing J Server allows developers to include drivetime functionality and routing with driving directions in their location-enabled applications. Companies can use this street network analysis tool for:

- Calculation of the shortest distance or quickest timed route between any two points—retailers determine potential trade areas and delivery services generate reasonable guaranteed response times.
- Location of multi-point routes calculates directions to multiple stops by chose order or quickest route—plan sales calls and delivery stops.
- Creation of drive time matrices used for the determination of drive times and associated costs between an unlimited number of locations—decide cost structures and rate plans for taxi and courier services.
- Generation of drive time or drive distance polygons—essential to market analysis and support site selection, as well as other complex location-based decision making.

With MapInfo Routing J Server, businesses can quickly develop and host high volume route requests calculating the shortest or quickest route between two points and return point-to-point driving directions. Web site store locators with directions will allow customers to locate your site quickly

and easily—and are now vital, 90% of customers expect to find such applications on appropriate sites.

Strategic applications are increasingly common, such as dispatch for service and routing delivery fleets—both of which can be deployed via secure intranets.

Developer Benefits

MapInfo developed the Routing J Server in Java, making it platform independent and extensible.

COM Component. Developers of Windows-based applications can now embed routing functionality by accessing the routing engine using the COM component provided with Routing J Server.

XML Interface. In addition to the Java API, Routing J Server also supports an XML API. This allows you to send XML requests to the Routing J Server and receive XML responses.

Sample Applications. MapInfo Routing J Server ships with three categories of sample Java applications as well as four samples for the COM component.

Application developers can select from a host of user-defined parameters, from controlling how memory is utilized to optimizing performance. The product is servlet-based for optimal scalability and performance.

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Robust Routing Capabilities

MapInfo Routing J Server can calculate point-to-point routes within mapping applications in addition to performing the more sophisticated functions of a routing engine, such as solving logistical problems involving multiple destinations and to generating drivetime polygons.

Point to Point Routing allows you to specify a start and destination location and in return receive the shortest time or shortest distance route in both spatial feature and directions form.

You have the option to set many preferences:

- Optimize routes by either travel time or distance
- Allow for the avoidance of particular road types such as major or minor roads
- Change speed limits on road segments and have Routing J Server consider this data when calculating optimized routes
- Focus routes to control the amount of detailed travel information returned to the calling application
- Receive terse driving directions, ideal for limited display devices

Multi-Point Routing allows you to specify a start and destination location but also as many intermediate points as needed. You can ask for the route to be built in an ordered multi-point request to return a path with all stops in the order in which they were submitted, or an optimized multi-point

request to return the most efficient path between all stops. Additionally, you may control factors such as the durations spent at particular stops.

Drive Time Matrices provide a table of travel costs associated with any number of start and destination points. A table of travel costs between many locations is a valuable support tool for delivery and rate determination. Almost any preference applicable to route request are available with matrix route request.

Drive Time Polygons can be used for analysis and is ideal for functions such as evaluating the customer base within a given distance from an existing or proposed location. Drive time polygon preferences give you to control over the creation or shape of the returned polygon through settings like off road distance, ambient speed, islands, and simplification factor.

Multilingual Directions. Routing J Server provides directions in various languages, so businesses can cater to multinational audiences. Clients may request directions in any of the following: Danish, German, Spanish, Finnish, French, Italian, Portuguese, Swedish, Dutch and Norwegian.

Dynamically Update Transportation Data. Enables users to select and modify the speed or road classification attribute of any given road segment. This feature permits Routing J Server to consider real-time traffic incidents and select alternative routes on the basis of changing road conditions.

SPECIFICATIONS

Coverage

MapInfo Routing J Server ships with street data for many countries around the world including but not limited to the U.S., Australia, Austria, Belgium and Luxembourg, Canada, Czech Republic, Denmark, Finland, France, Germany,

Greece, Hungary, Ireland, Italy, Netherlands, New Zealand, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, UAE and the United Kingdom. MapInfo is continually adding to its portfolio, please contact your MapInfo reseller for more information.

System Requirements

MapInfo Routing J Server is a 100% J2EE compliant routing engine. Routing J Server is multi-threaded and runs within a Servlet container. This makes Routing J Server the choice for enterprise deployments. Routing J Server ships with

a Java client interface, an XML interface, and a COM Client interface to satisfy most development and deployment requirements. With minimal system requirements, Routing J Server is also appropriate for deployment on higher end desktop systems.

