



GeoMedia Transportation Manager

The transportation industry's job is to move people and products without delay. With an efficient management system in place, supervising agencies can build and maintain the transportation infrastructure required to get travelers and products to their destinations safely and on schedule, place repair and construction teams in the right place at the right time, and determine where agency funds should be spent.

Intergraph's GeoMedia® Transportation Manager provides the key geospatial technology to help professionals in departments of transportation (DOTs), rail companies, waterway agencies, and pipeline operations to efficiently analyze and maintain the transportation infrastructure. Functionalities are included for building a linear network model that will support both linear referencing system (LRS) and vehicle routing applications.

Analyze data – quickly and easily

A linear referencing system defines a feature or location by its linear distance from known points on a linear network. Using GeoMedia Transportation Manager's LRS Analysis, you can determine, for example, the location of dangerous traffic conditions, analyze the root cause, and make appropriate improvements. Practical applications of this capability can lead to immediate improvements in the transportation network.

Rail transportation providers can use LRS Analysis to highlight track segments that need priority maintenance. A county road division can take advantage of GeoMedia's dynamic pipe technology to see a combined result from two or more sets of data – often maintained in disparate formats by separate divisions. In this way, they can determine the surface condition of a section of highway and see whether any pavement repair projects are scheduled for the near future.

Dynamic segmentation, a powerful tool for analyzing tabular data referenced to linear features on a map, is one of the capabilities provided by GeoMedia Transportation Manager. Dynamic segmentation allows you to see a row of data from a spreadsheet plotted as a dot or line on a map. You can then employ this map data – depicting assets, incidents, and activities – as you would any other geospatial data.

Routing analysis provides previously unavailable flexibility and efficiency in the use of mobile assets. You can optimize the value of vehicles and personnel in the field, plan contingencies for problems such as damaged pipelines, assure proper coverage for emergency response services, and find the most efficient route to the facility you are looking for. Capabilities include finding best path and closest facility, analyzing coverage of emergency services for a portion of the network, and creating navigation directions between stops.

Define network characteristics

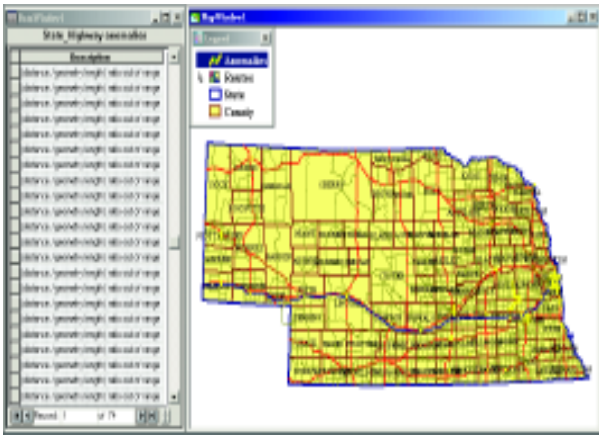
LRS Data Maintenance provides tools for developing consistent attributes for the transportation network. LRS Validation performs an in-depth review of a transportation network to find errors and unusable information. Anomalies are queued for review and are automatically deleted once they are corrected. LRS correction tools handle difficult problems such as incorrectly ordered segments in a geometry collection.

LRS Calibration automates the population of measure and route-name attribution – a capability that is critical to the operation of an LRS. This command can save time and effort in projects when, for example, a state DOT incorporates local roads in the state system. If the sources for the local roads are without measurement attribution, the LRS Calibration command can calibrate the entire feature or query class in a matter of seconds.

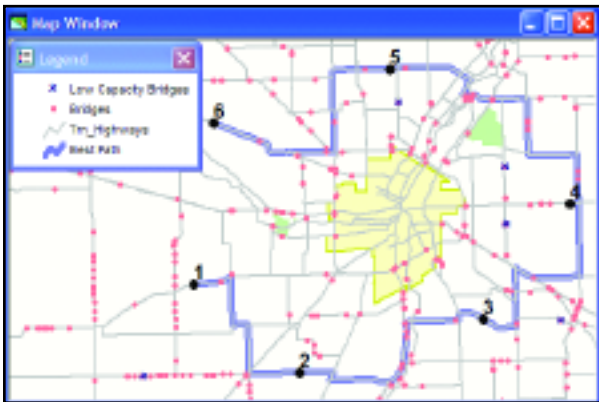
Routing Data Maintenance enables the creation of network connectivity with edges and nodes with stored attributes. This capability can be fine-tuned to designate edges, for instance, as one-way streets or as zones that would be hazardous for oversized loads. Manage the sequencing of stops, assign costs to routing options, and restrict such actions as left turns or travel on narrow roads.

Integrate data without translation

Transportation network and asset data can come from a variety of sources, in a variety of formats. GeoMedia technology enables you to bring data from disparate databases into a single GIS environment for viewing, analysis, and presentation. No translation of data is required. GeoMedia's data server technology supports open standards, providing direct access to business and project data from virtually any geographic data objects (GDO)-compliant data server within your enterprise. These include Oracle®, Microsoft® Access, Microsoft SQL Server™, MGE, MGSM, IBM® DB2®, ArcInfo, ArcRoute, and ArcView.



The LRS Validation command provides a list of anomalies found when the linear referencing system is verified. As you correct errors from the list, they automatically disappear from the data and map windows.



Merging linear referencing system (LRS) and routing capabilities, GeoMedia Transportation Manager's Best Path command shows the safest route for over-sized vehicles. Taking advantage of the command's Edge Restrictors, the route avoids roads with low-capacity bridges that could collapse under extra weight.

Bridge the gap between technology and productivity

Intergraph Mapping and Geospatial Solutions helps you get the most from your investment by providing a comprehensive set of services for the open computing environment, including system integration, consulting, project services, and implementation. GeoMedia Transportation Manager is ready to use right out of the box; however, where customization is required, a documented public API to software capabilities facilitates open customization with industry-standard tools such as Microsoft Visual Basic®.

GeoMedia: Open from the start

As a founding and strategic member of the Open GIS Consortium (OGC), Intergraph is a visible force in ongoing OGC initiatives for industry standards, and spearheads interoperability in the GIS and IT marketplace. Intergraph Mapping and Geospatial Solutions is committed to open systems solutions and data interoperability.

The Intergraph Solution

With 35 years of technology innovation to its credit, Intergraph understands the business challenges customers face every day. Our unique combination of pioneering technology and comprehensive professional services makes Intergraph Mapping and Geospatial Solutions the leading provider of customized geospatial solutions for local, regional, and national government entities; transportation and mapping agencies; utilities and communications companies; commercial remote sensing and photogrammetry organizations; military and intelligence agencies; educational institutions; and more.

Why transportation industry leaders choose Intergraph

Road, rail, pipeline, and waterway agencies around the world depend on Intergraph for advanced geospatial transportation solutions.

Benefits include:

- Improved planning and decision making
- Data sharing across the enterprise and around the world
- Quick access to data no matter where it resides or what format it takes
- The industry's best analysis and display capabilities
- An empowered mobile workforce
- Third-party partners to develop a complete industry solution
- Merger of geospatial data with information technology and business process improvement tools to create efficient workflows

For more information, visit our Web site at <http://imgs.intergraph.com>.

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